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ABSTRACT

This document is part 1 of the workbook for kindergarten pupils in the Comprehensive Instructional Management System, a unified mathematics curriculum for kindergarten through grade 7. Each objective is developed by a variety of strategies, with mastery of objectives diagnosed through a testing component. The activities in the student workbook are designed to provide practice in mastering the performance objectives, following the sequence in the teacher's manual. Seventy-six performance objectives are included in this part of the kindergarten workbook, designed to develop relationships, number concepts, shape recognition, graphing skills, and other readiness ideas. (MNS)

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CIMS

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COMPREHENSIVE INSTRUCTIONAL MANAGEMENT SYSTEM

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A Cyclical Mathematics Curriculum

Workbook Part I

NEW YORK CITY BOARD OF EDUCATION
OFFICE OF CURRICULUM DEVELOPMENT AND SUPPORT
DIVISION OF CURRICULUM & INSTRUCTION

03-200K-10

SE 045 503

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FOREWORD

The Comprehensive Instructional Management System (CIMS) is a unified mathematics curriculum for grades K-7. The curriculum is cyclical in design, and reflects the most recent New York City and New York State guidelines.

Utilizing the experience of our system's teachers, we have developed a teacher-designed curriculum that includes a rich selection of classroom-tested successful mathematics activities. The major goal of the CIMS mathematics project is to provide the classroom teacher with a well-structured, objective-based curriculum. All objectives are supported by a variety of strategies. Student mastery of these objectives is readily diagnosed through the system's testing component.

The curriculum format is structured to allow the teacher to determine the ability level of the students in the topic under study, and to permit the students to move forward at their individual rates. Each module of instruction provides the teacher with a set of related performance objectives. These objectives are supported by activities which probe and develop the students' readiness to undertake new skills and concepts. Further reinforcement is given to mastery of the objectives through accompanying student workbooks.

It is hoped that this curriculum will not only assist teachers in developing vital mathematics instruction, but will serve to expand and enrich students' mathematics skills.

Charlotte Frank

Charlotte Frank,
Executive Director
Division of Curriculum and Instruction

ACKNOWLEDGMENTS - 1984

The Comprehensive Instructional Management System (CIMS) was developed as a project of the Division of Curriculum and Instruction, Charlotte Frank, Executive Director. Dr. Peter Negroni, Community School Superintendent CSD 12; Dr. Harvey Garner, Community School Superintendent CSD 18; Carlos Edwards, Community School Superintendent CSD 23, and Joseph Pacheco, Community School Superintendent CSD 32 supervised the overall development of the CIMS program within their respective districts.

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Overall supervision of curriculum in addressing those students with special needs was coordinated by Edward M. Sermier, Chief Administrator, Division of Special Education.

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To The Teacher:

The activities in the CIMS student workbook are designed to provide the pupils with practice in mastering the curriculum's performance objectives and follows the sequence of the CIMS teacher's manual. Each workbook activity page lists the corresponding performance objective number in the upper left hand corner. The activity page numbers are identical to those found in the CIMS teacher's manual.

To The Student:

This mathematics workbook will help you to practice many of the new ideas your teachers have presented. Each worksheet has examples of the material you have studied in your daily mathematics lesson. As you proceed through this workbook, you will notice that you have learned many skills and will be ready to move on to more difficult ones.

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0.01.07.02	Recognize and identify the symbols 1 through 4 as numerals for the numbers one through four.	12g,h
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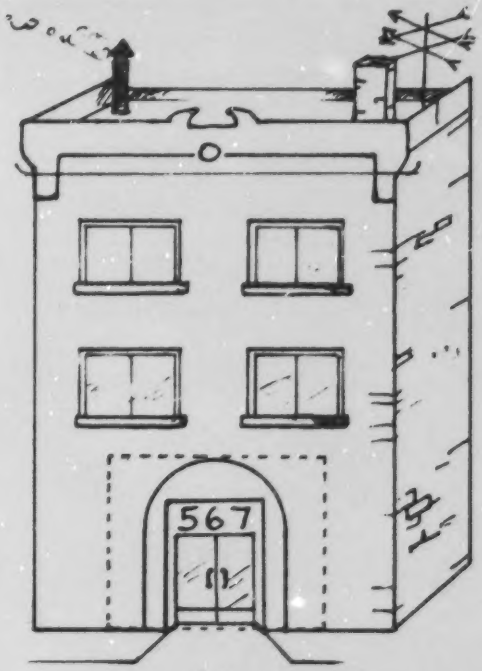
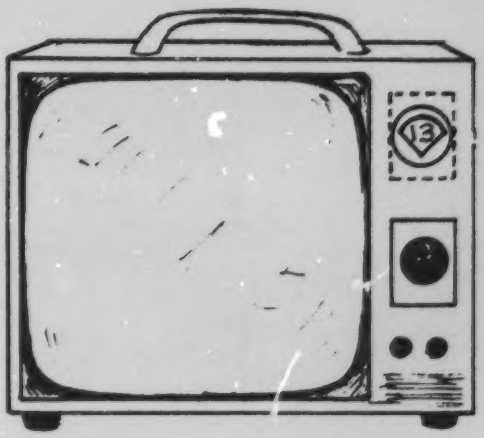
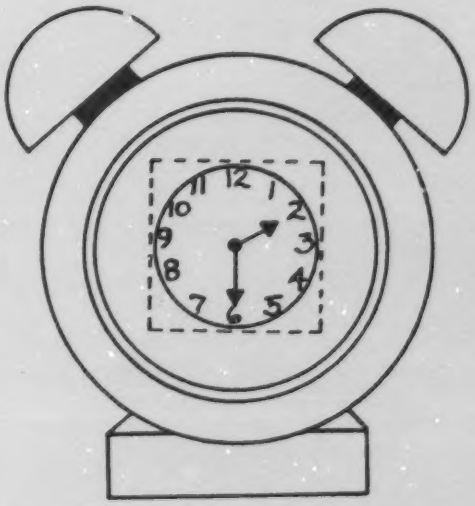
P.O. 0.01.01.01

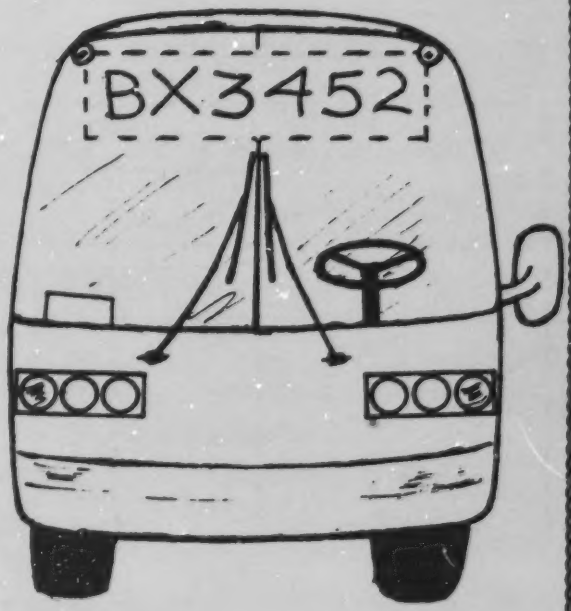
NAME: _____ CLASS: _____

Name each object. Color the part that has numbers.





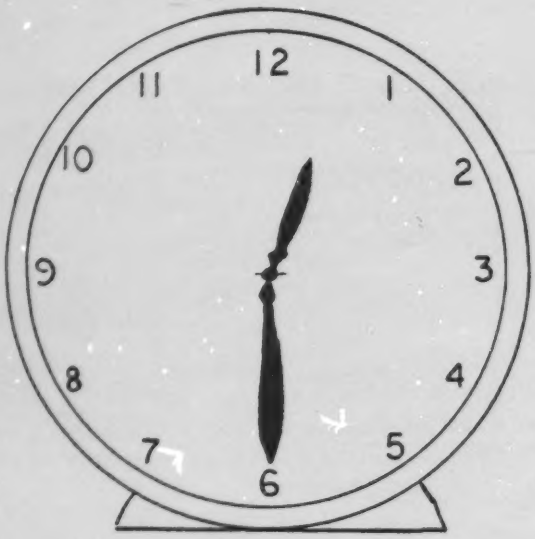


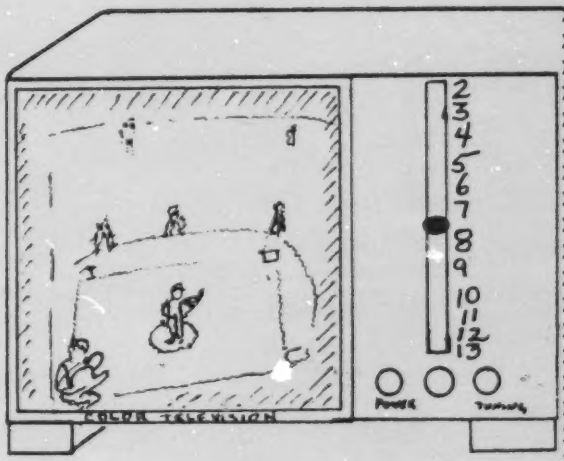


P.O. 0.01.01.01

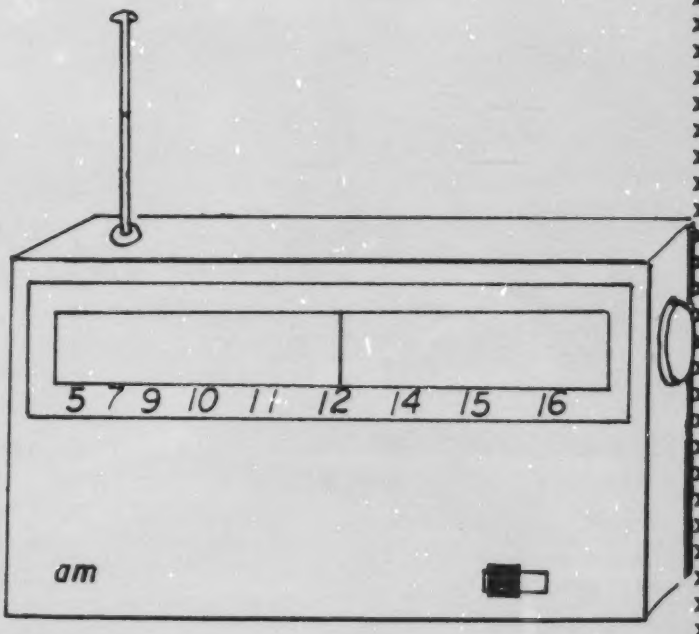
NAME: _____ CLASS: _____

Name each object. Color the part that has nurbers.





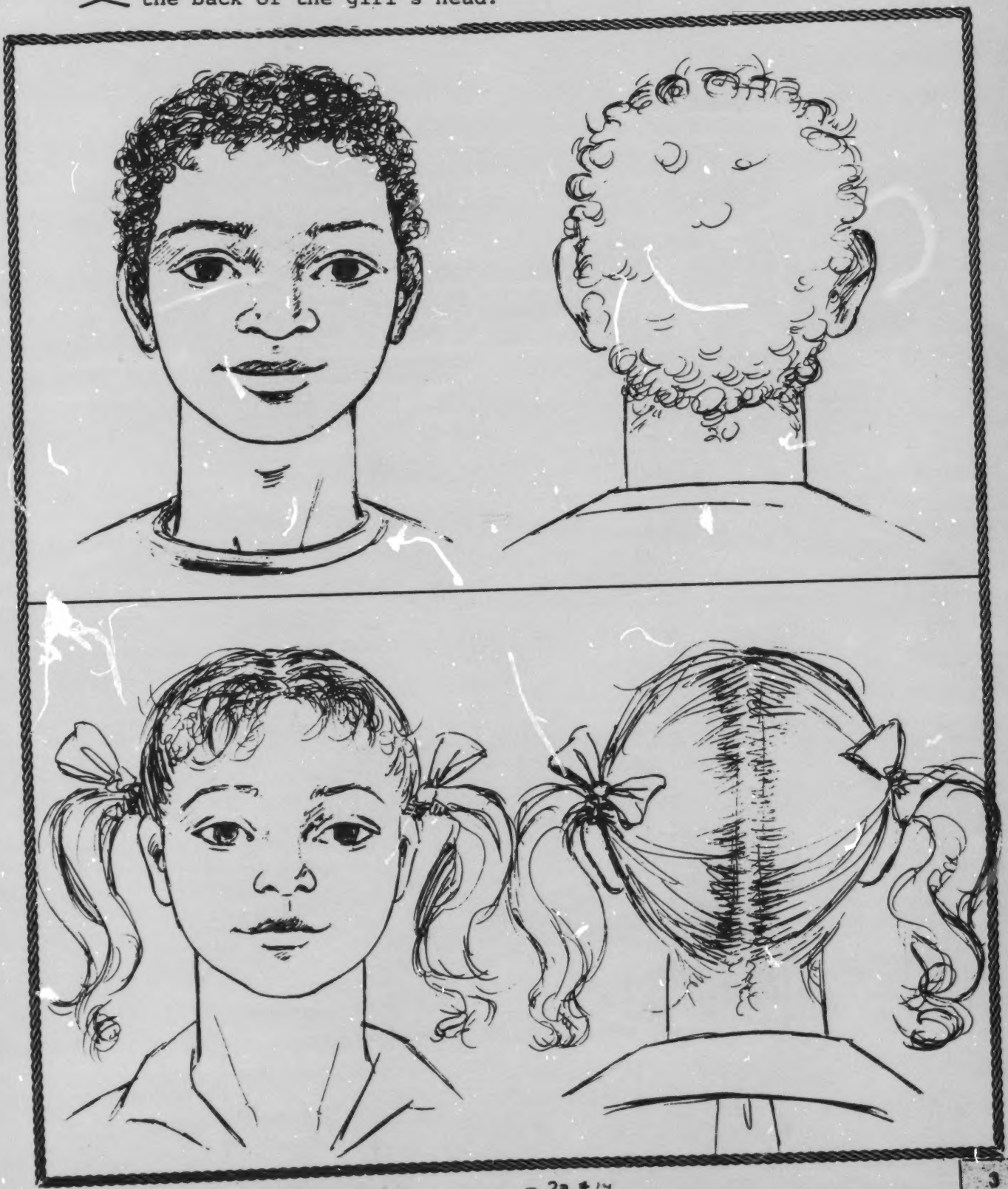
MARCH						
SUN.	MON	TUE	WED	THUR	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		



P.O. 0.01.02.01

NAME: _____ CLASS: _____

X the front of the boy's head.
X the back of the girl's head.



P.O. 0.01.02.01

NAME: _____ CLASS: _____

X the boy who is seated behind the table.

X the girl who is in front of the chair.

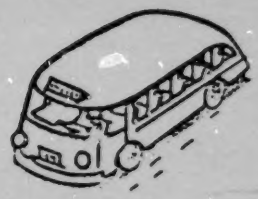
P.O. 0.01.02.02

NAME: _____ CLASS: _____

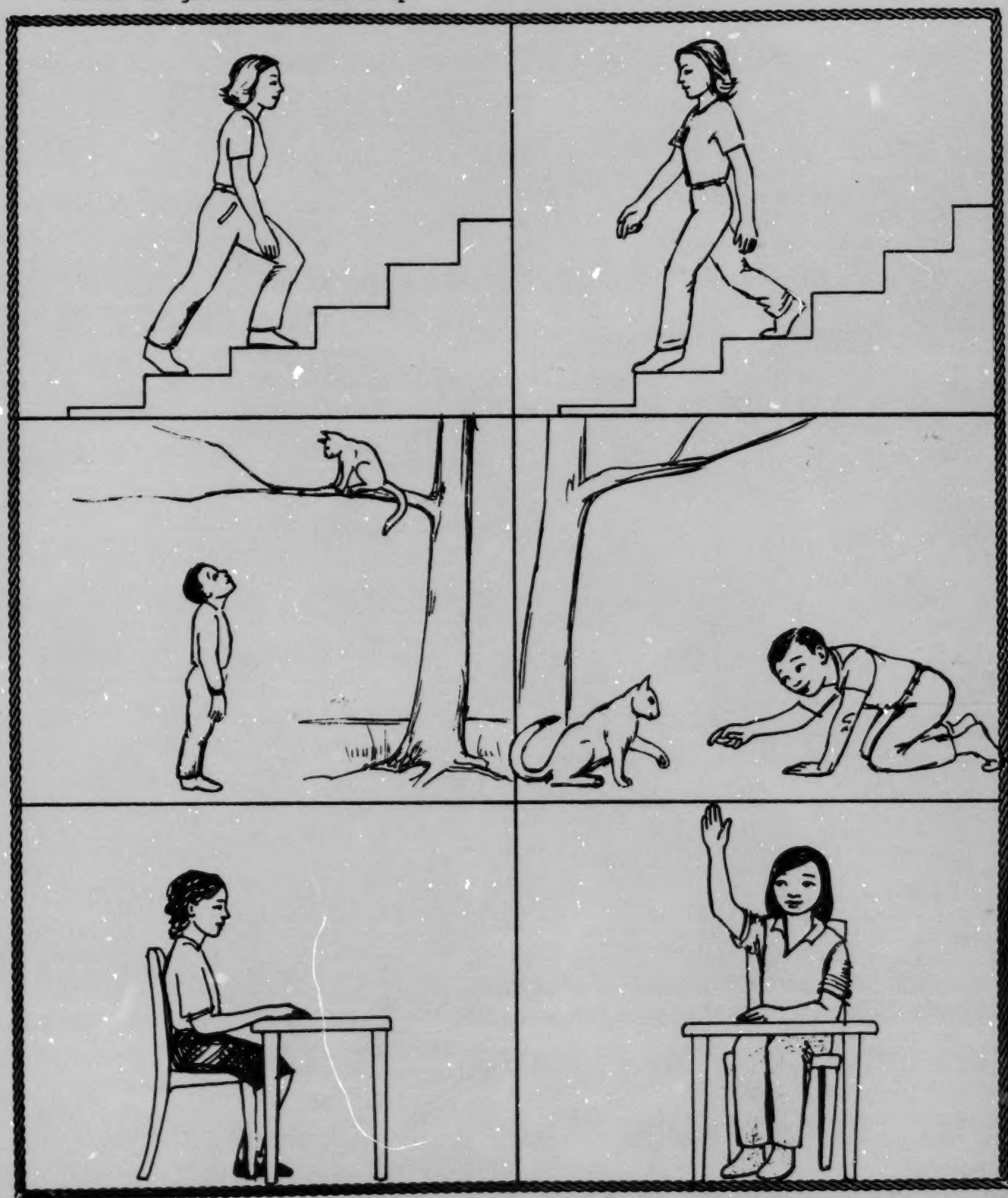
Color the kite which is up in the sky.
X the kite which has fallen down.

P.O. 0.01.02.02

NAME: _____ CLASS: _____



Circle the woman walking up the stairs.
Circle the boy who is looking up at the cat.
Circle the girl whose hand is up.



P.O. 0.01.02.03

NAME: _____ CLASS: _____

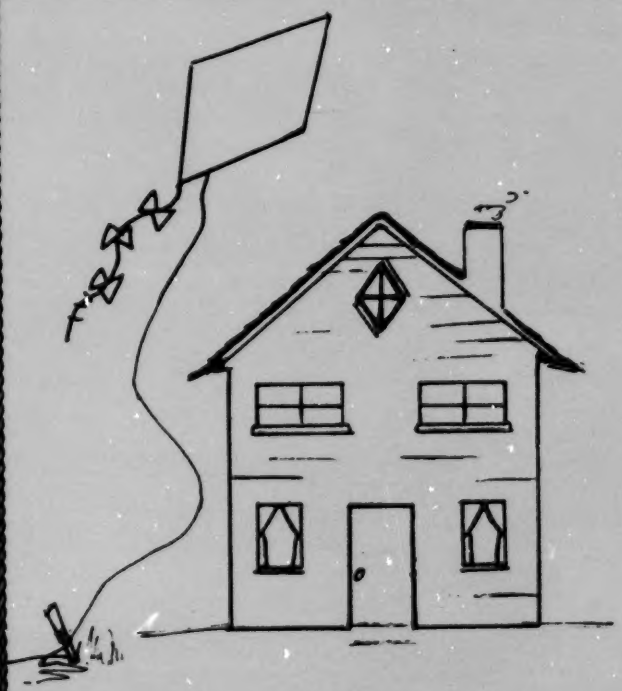
Color the plant parts that are below the ground brown.
Color the plant parts that are above the ground green (leaves) and yellow (flowers).

P.O. 0.01.02.03

NAME: _____ CLASS: _____

X the book that is above the table.

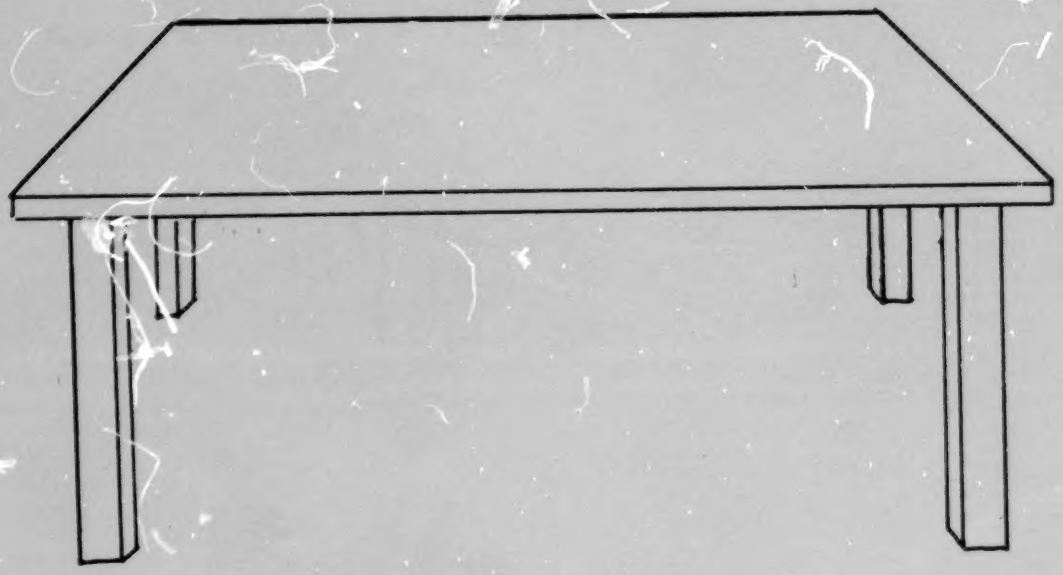
Color the kite that is above the roof.

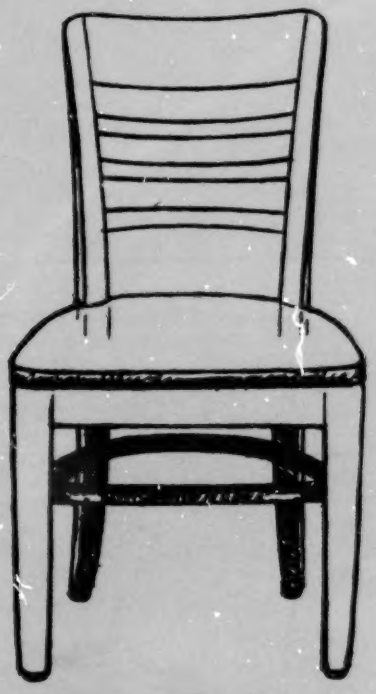


P.O. 0.01.02.03

NAME: _____ CLASS: ____

Draw a circle above the table.
Draw a circle below the chair.

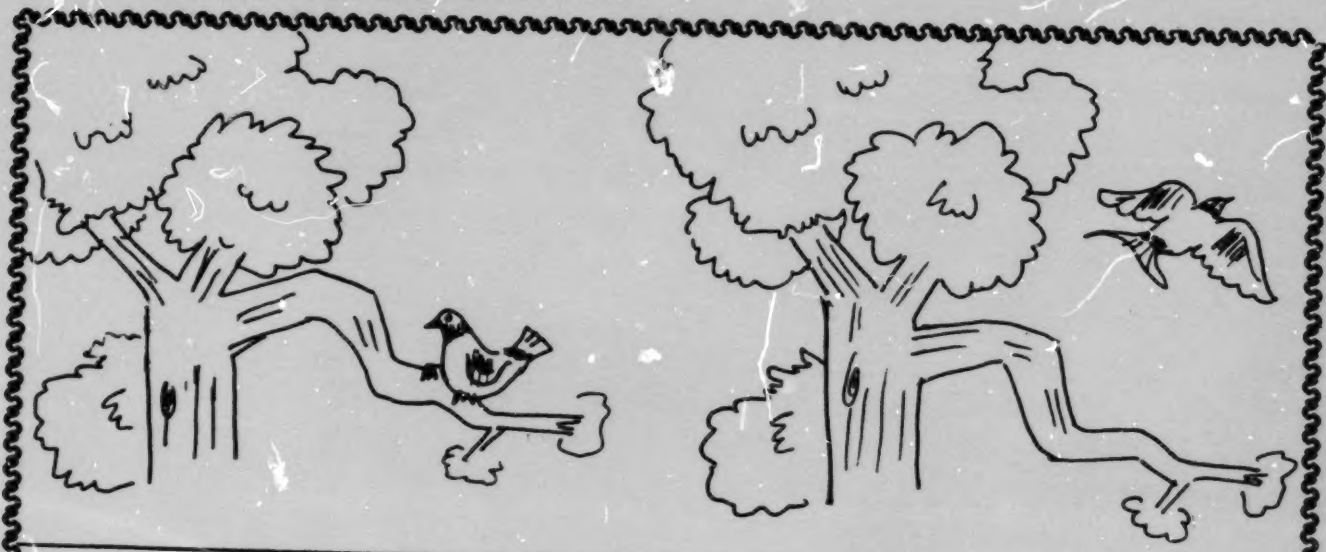




P.O. 0.01.02.04

NAME: _____ CLASS: _____

XX the bird that is on the branch.
XX the bottle with its cover off.
XX the bed with the blanket off.

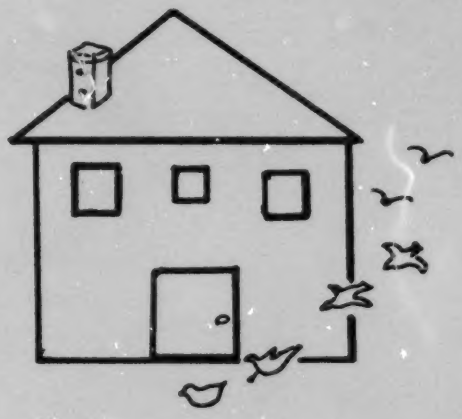


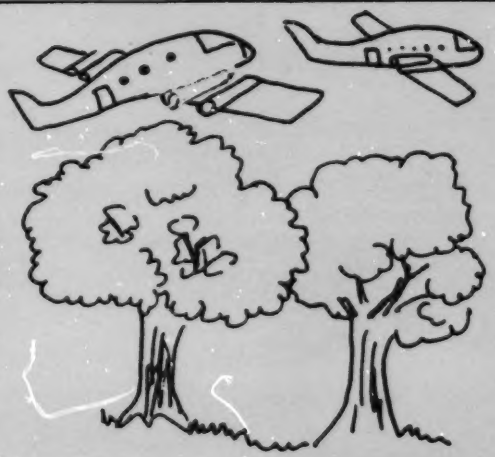
10

P.O. 0.01.02.05

NAME: _____ CLASS:

XXX the umbrella that is over the girl's head.
XXX the birds that are flying over the house.
XXX each plane that is under the trees.

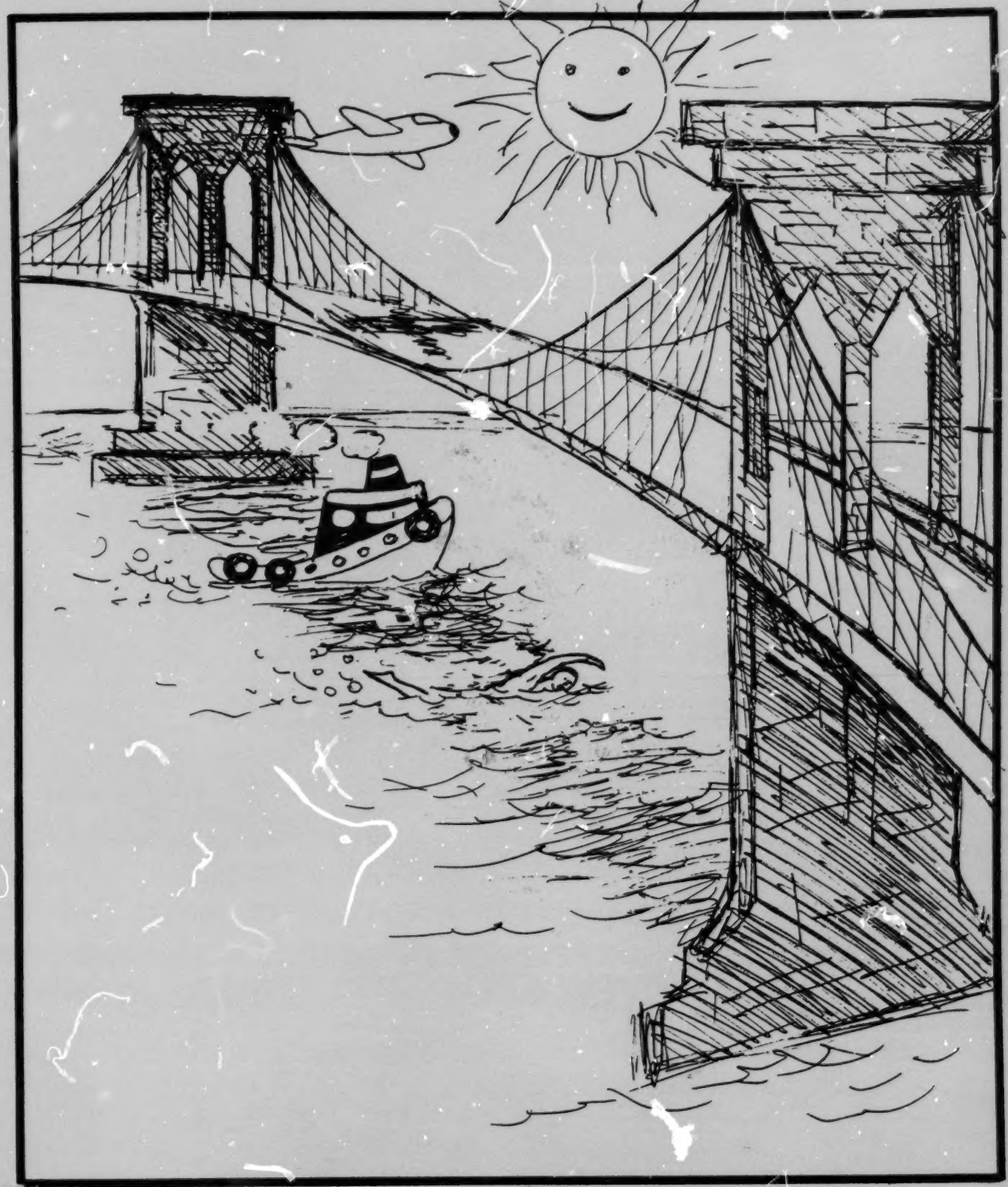




P.O. 0.01.02.05

NAME: _____ CLASS: _____

Color the objects over the bridge yellow.
Color the objects under the bridge brown.



F.O. 0.13.01.01

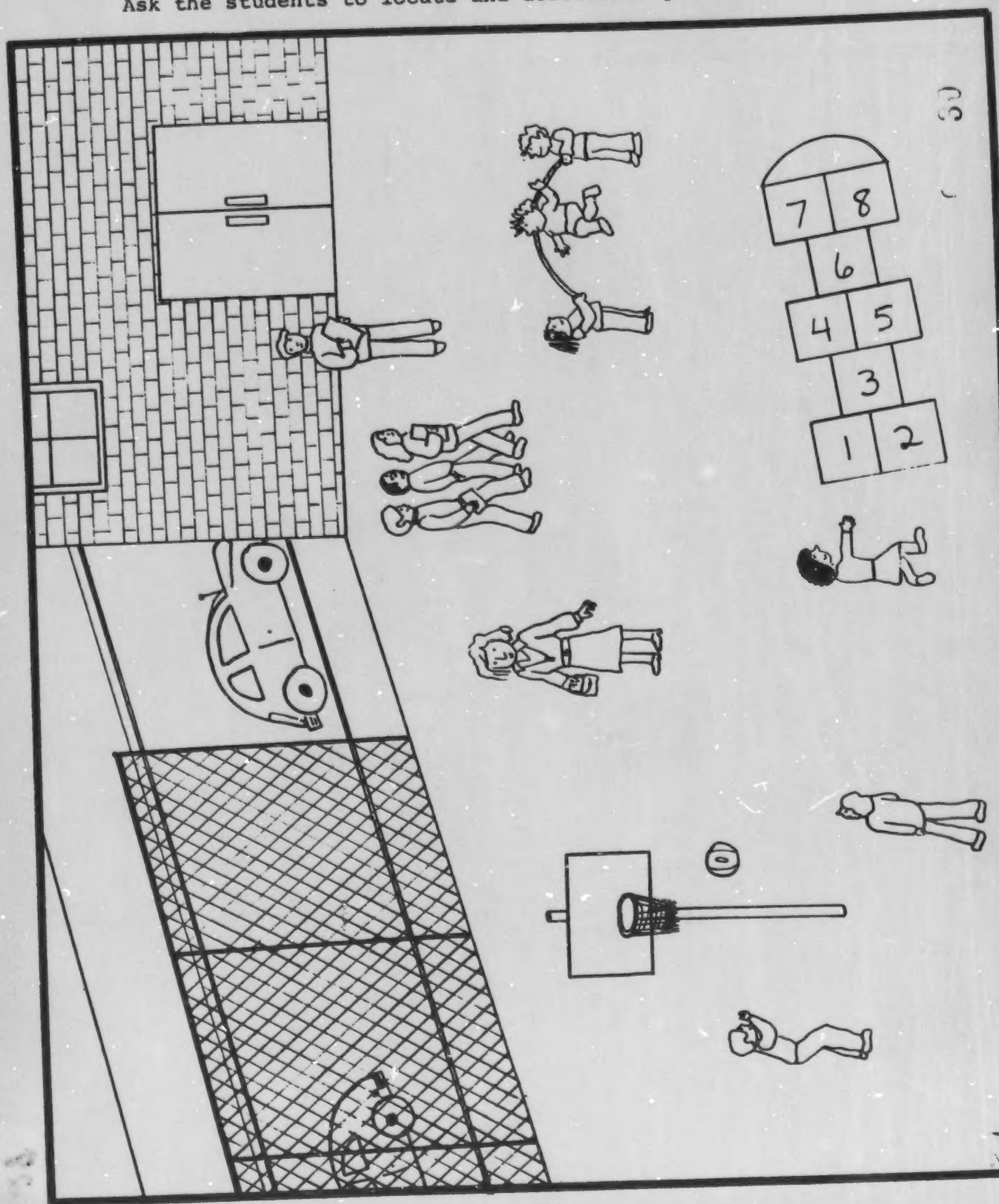
NAME: _____ CLASS: _____

Circle the objects that I tell you about.
Ask the students to locate and describe objects.

P.O. 0.13.01.01

NAME: _____ CLASS: _____

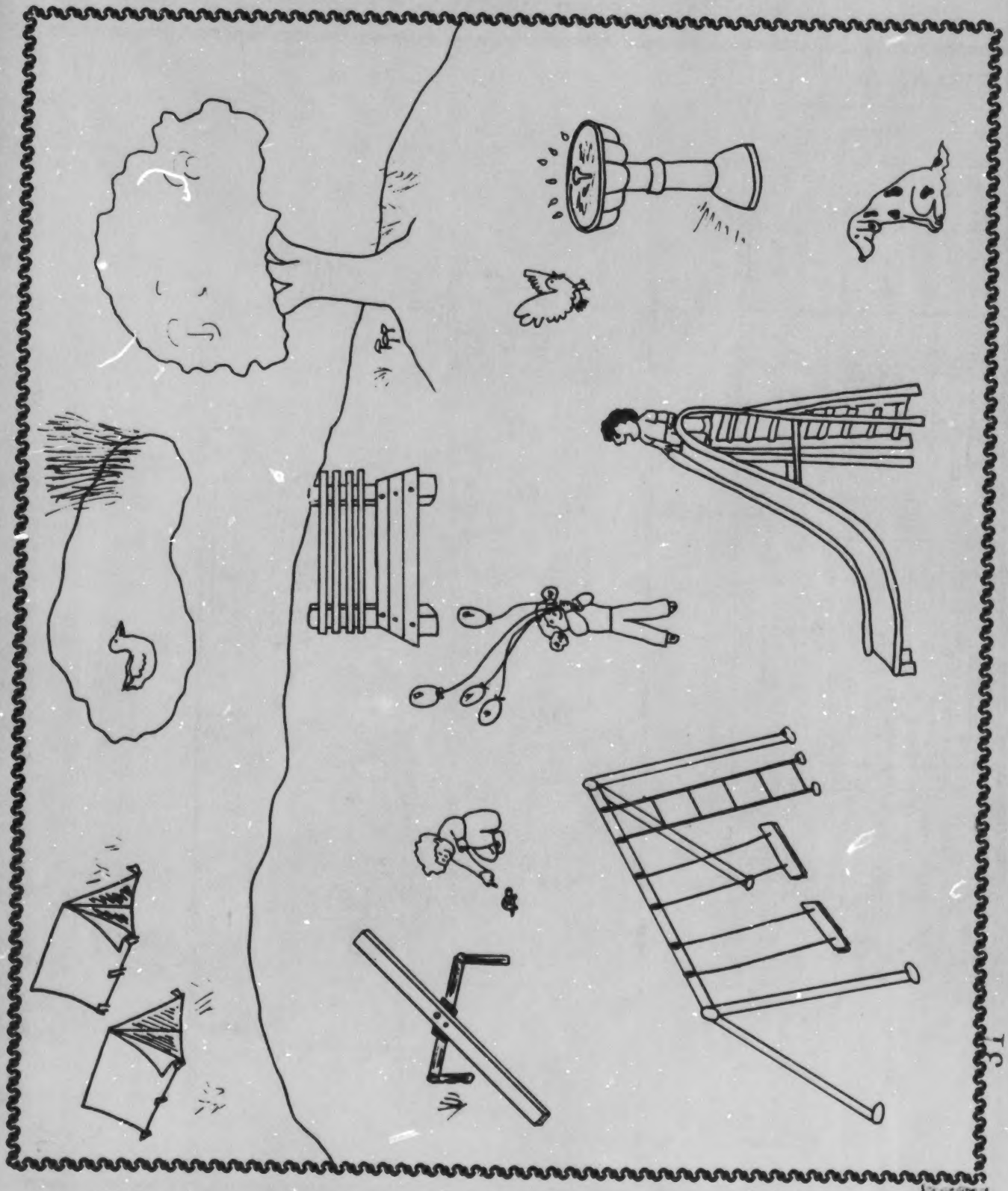
Circle the people or objects that I tell you about.
Ask the students to locate and describe objects.



P.O. 0.13.01.02

NAME: _____ CLASS: _____

Circle the people or objects that I tell you about.
Ask the students to locate and describe objects.



P.O. 0.13.01.02

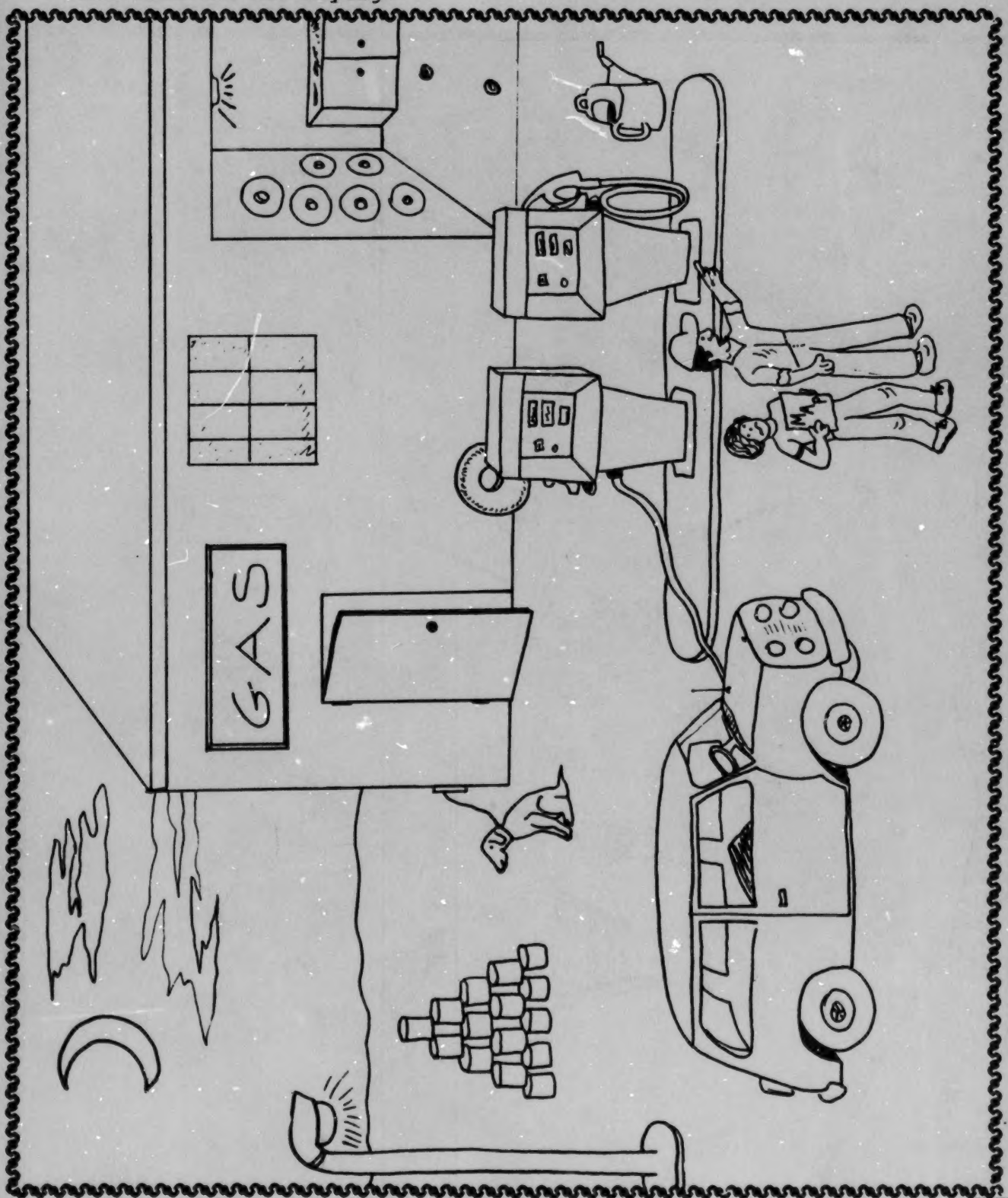
NAME: _____ CLASS: _____

Circle the people or objects that I tell you about.
Ask the students to locate and describe objects.

P.O. 0.13.01.03

NAME: _____ CLASS: _____

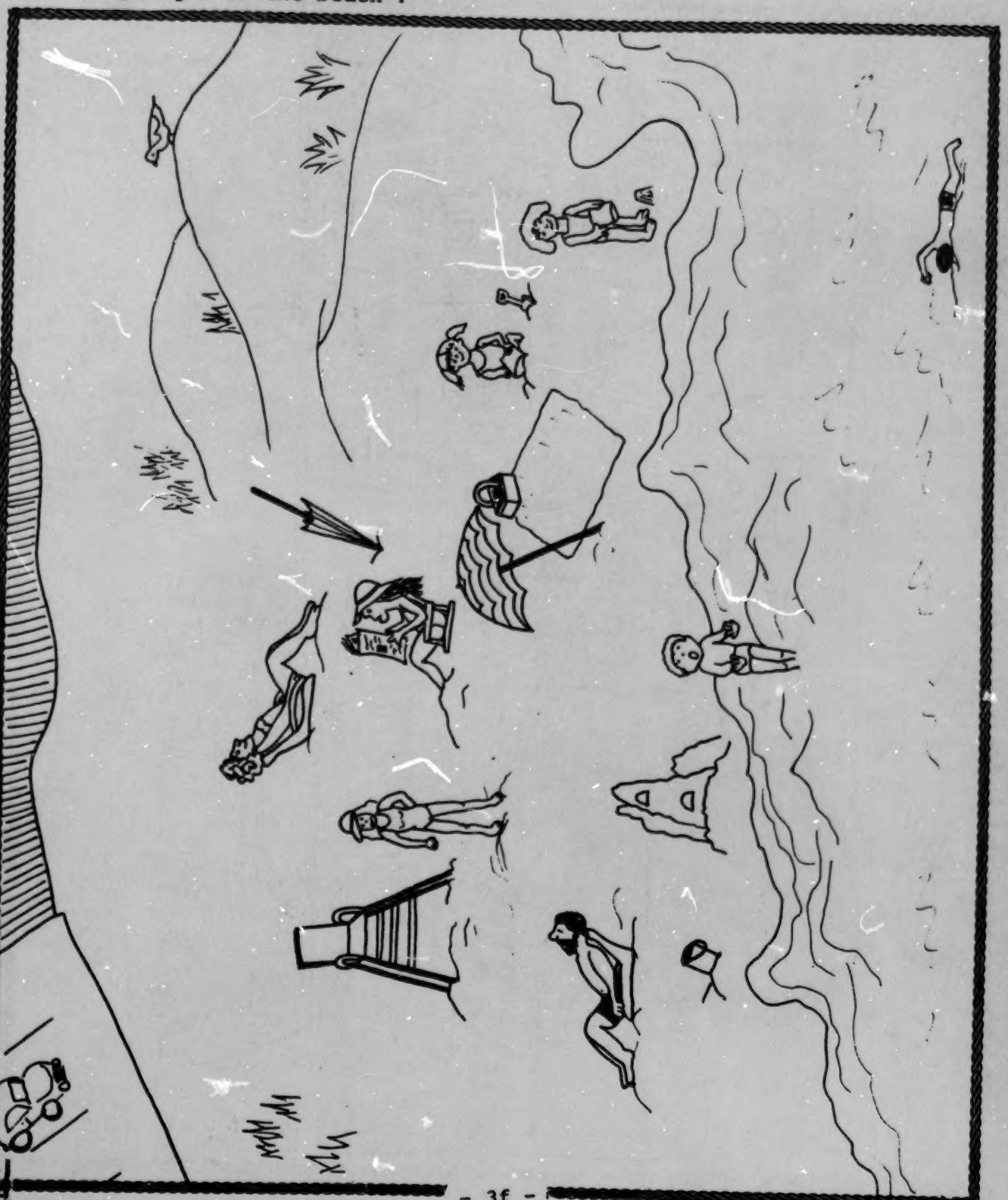
Ask questions which will lead youngsters to make inferences, e.g., What time of the day is it? Why did they have to stop? What is the man with the hat saying?



P.O. 0.13.01.03

NAME: _____ CLASS: _____

Ask questions which lead students to make inferences, e.g., What is the time of day ? What is the season ? How did the people get to the beach ?



P.O. 0.13.02.01

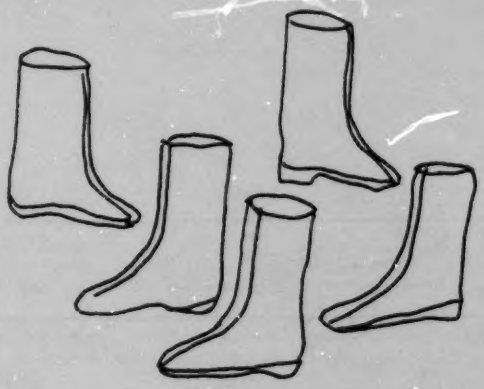
NAME: _____ CLASS: ____

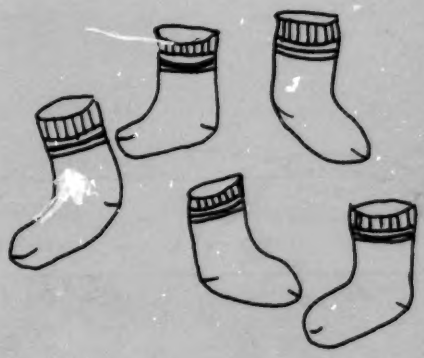
Match the cups and saucers.

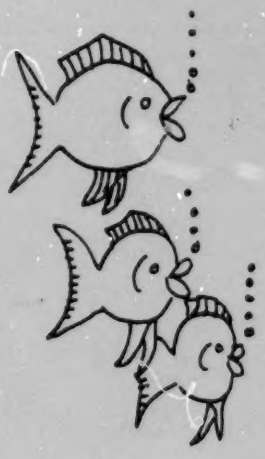
P.O. 0.13.02.02

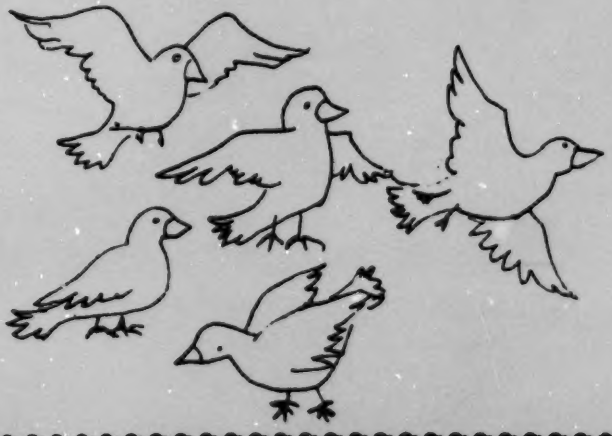
NAME: _____ CLASS: ____

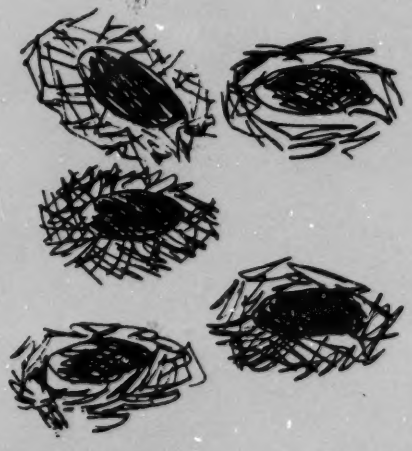
Match the groups.







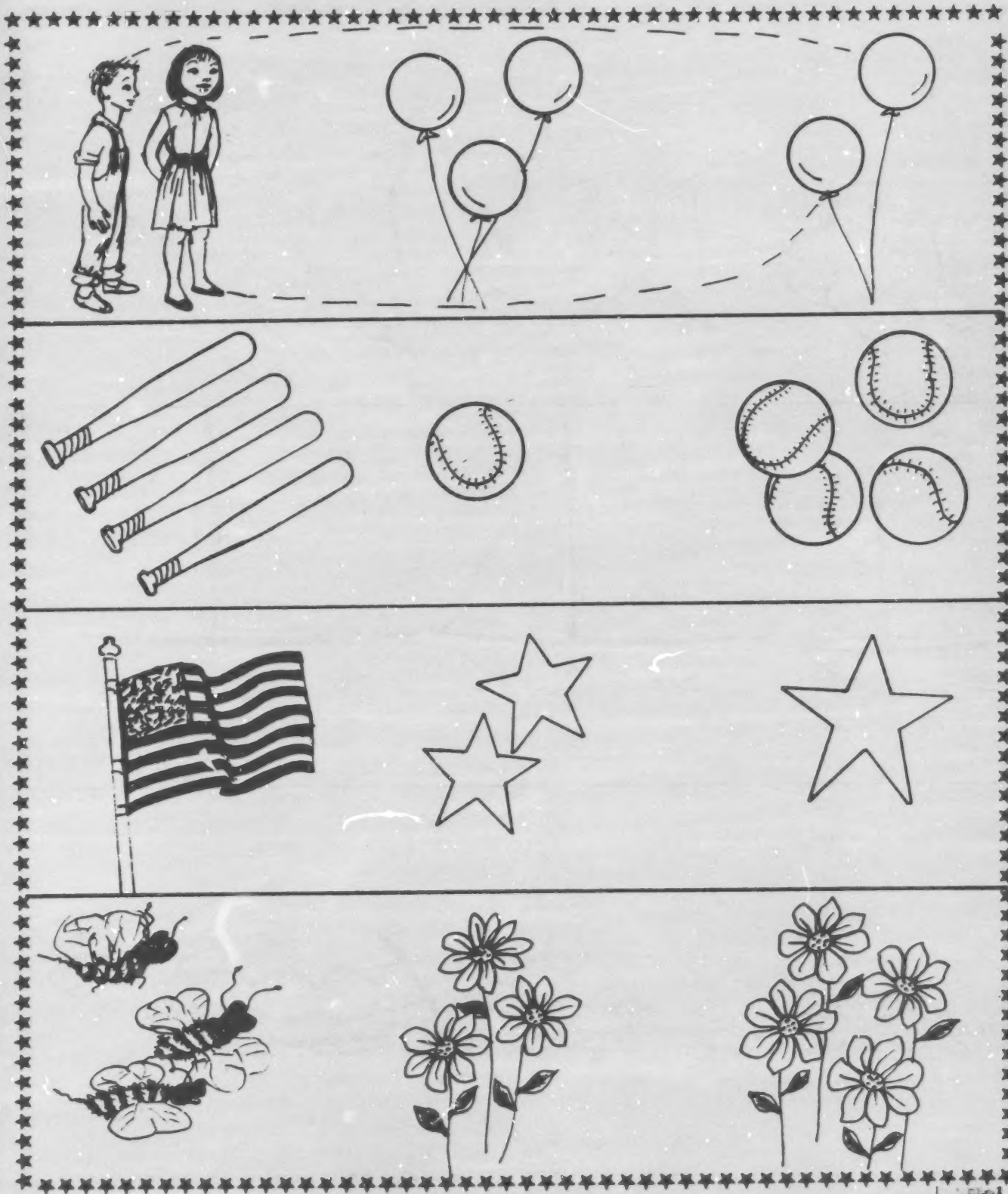




P.O. 0.13.02.02

NAME: _____ CLASS: _____

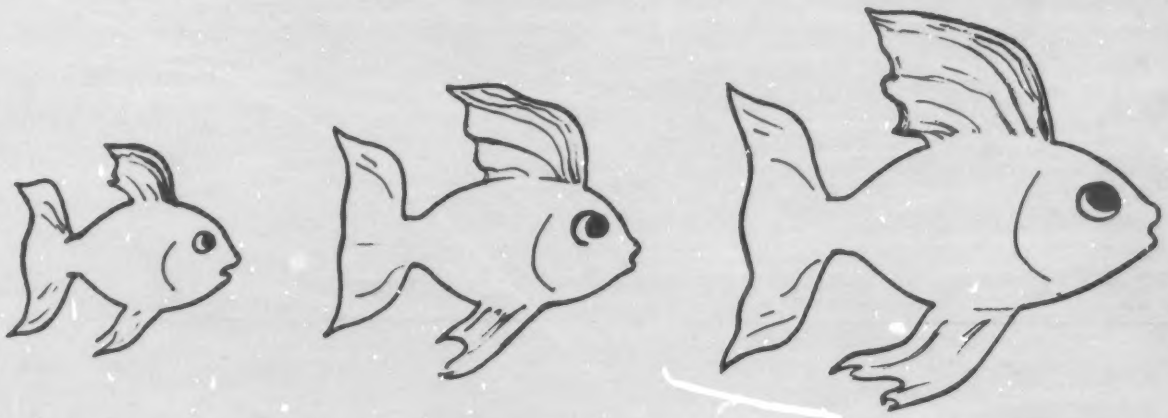
Draw a line to the matching group.

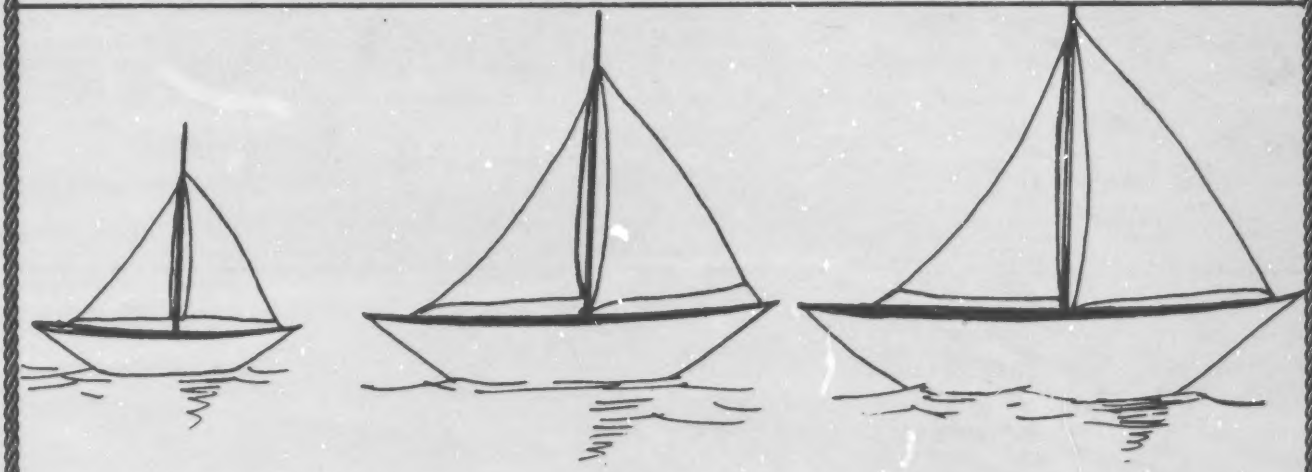


P.O. 0.01.03.01

NAME: _____ CLASS: _____

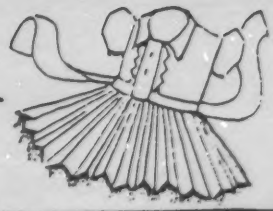
Circle the smallest object.
X the largest object.



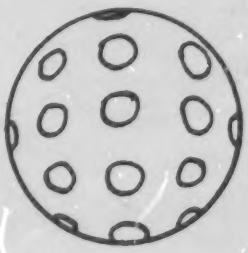


P.O. 0.01.03.01

NAME: _____ CLASS: _____



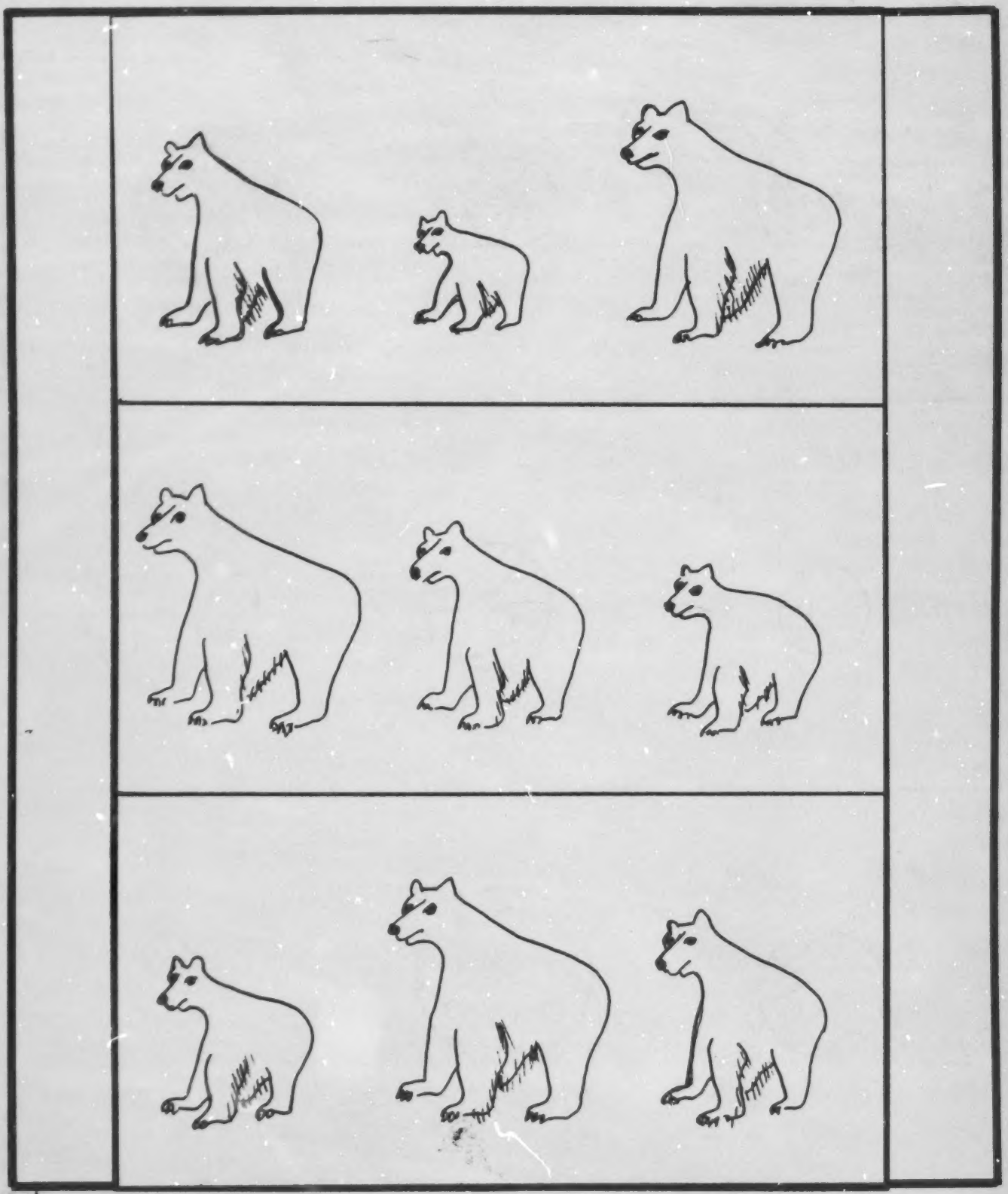
Color the row of balls which are in order from smallest to largest.



P.O. 0.01.03.02

NAME:_____ CLASS:_____

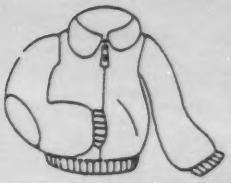
Color the row of bears which is in order from largest to smallest.



P.O. 0.01.03.03

NAME: _____ CLASS: _____

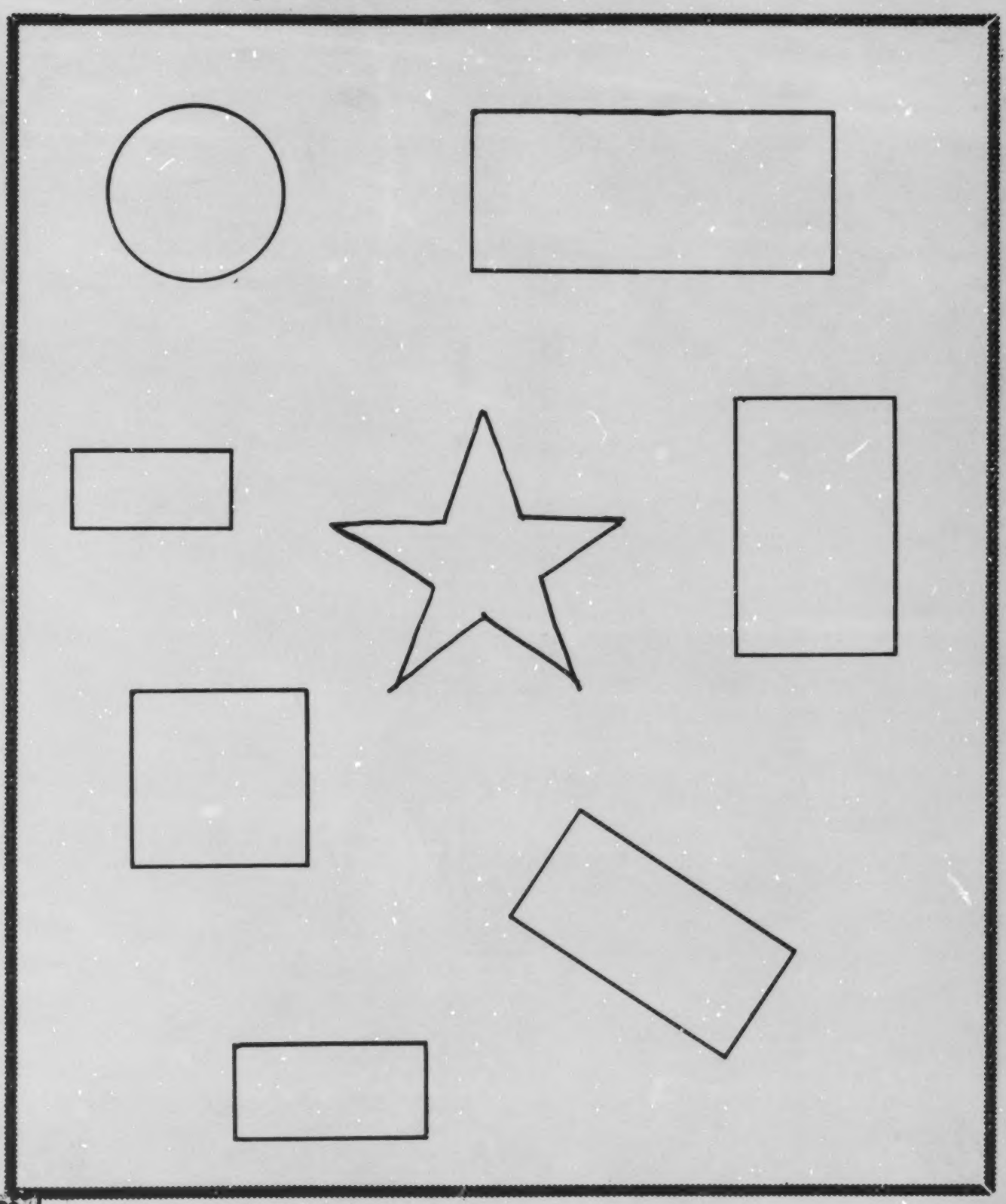
Color things used on a rainy day.



P.O. 0.01.03.04

NAME:_____ CLASS:_____

Color all the shapes that are the same red.
Ring each shape that is different.



P.O. 0.01.03.04

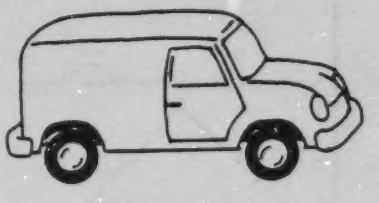
NAME:_____CLASS:_____

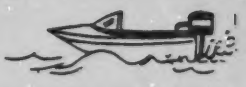
Color the shapes that are the same in each box.

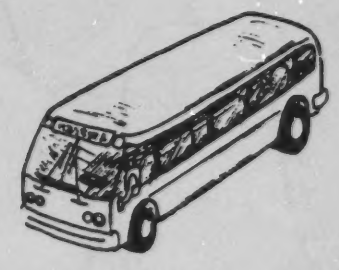
P.O. 0.01.03.05

NAME: _____ CLASS: _____

Match the pictures which are the same size - small, medium and large.



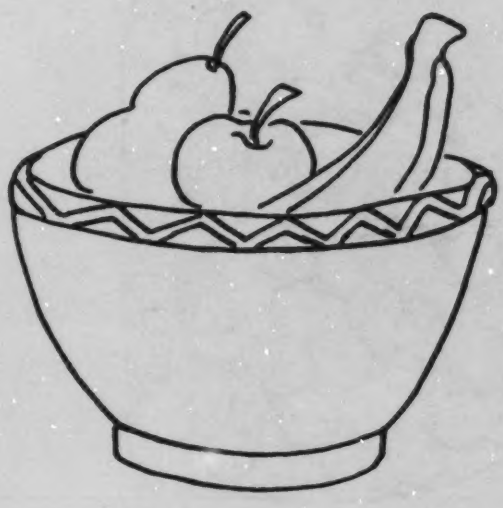


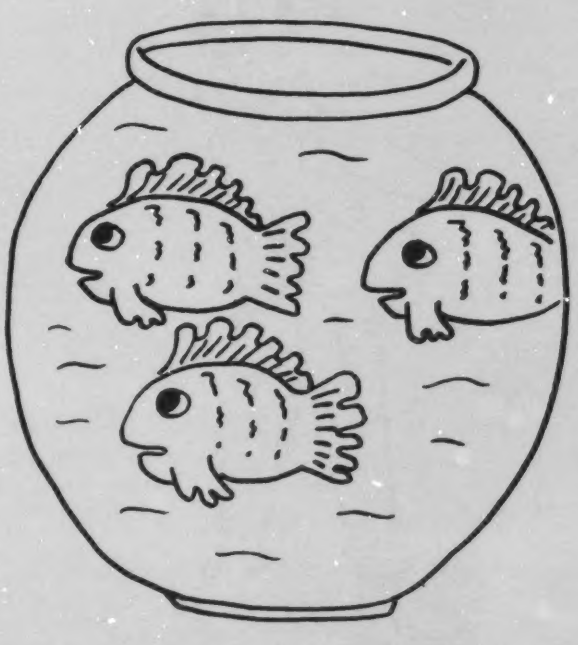


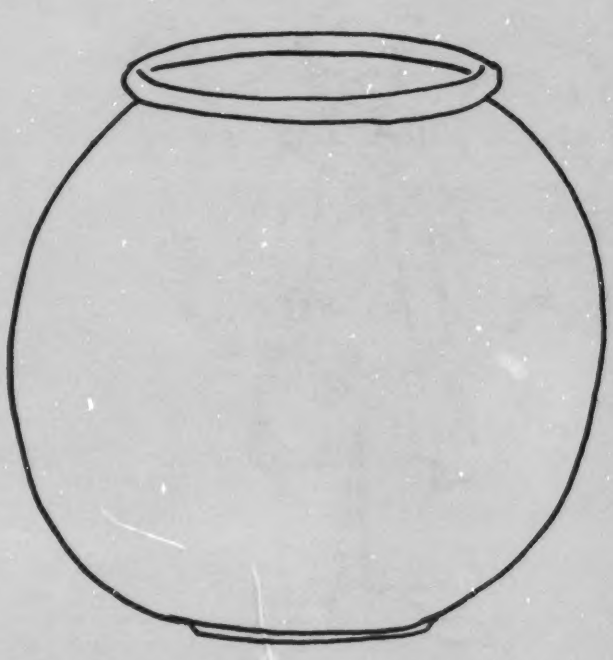
P.O. 0.01.05.01

NAME: _____ CLASS: _____

Color the bowls that have all the objects green.
Color the bowls that have none of the objects red.



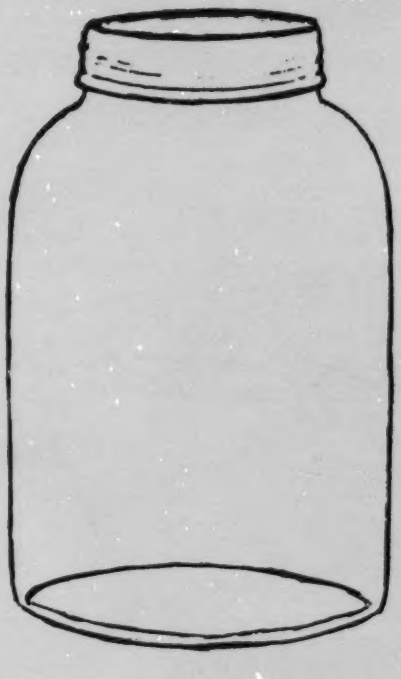


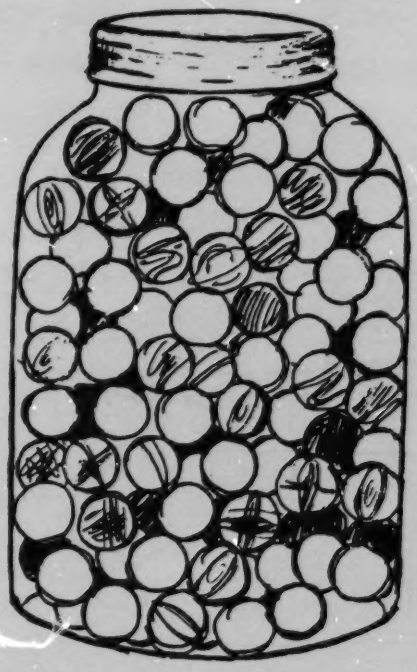


P.O. 0.01.05.01

NAME: _____ CLASS: _____

Color the jar with all the marbles.
Color the clown with none of the balloons.

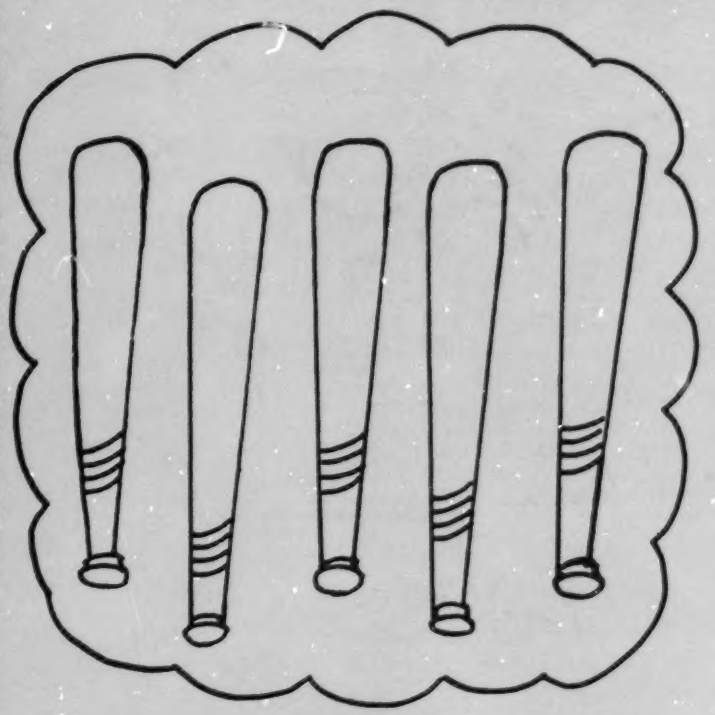


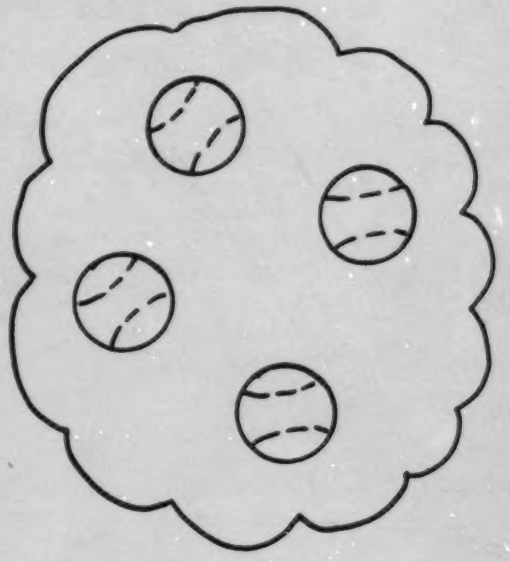


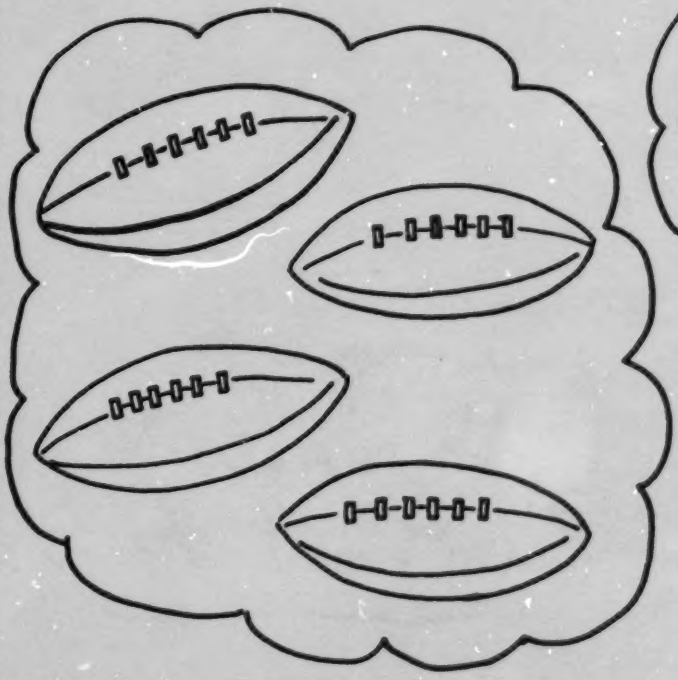
P.O. 0.01.05.02

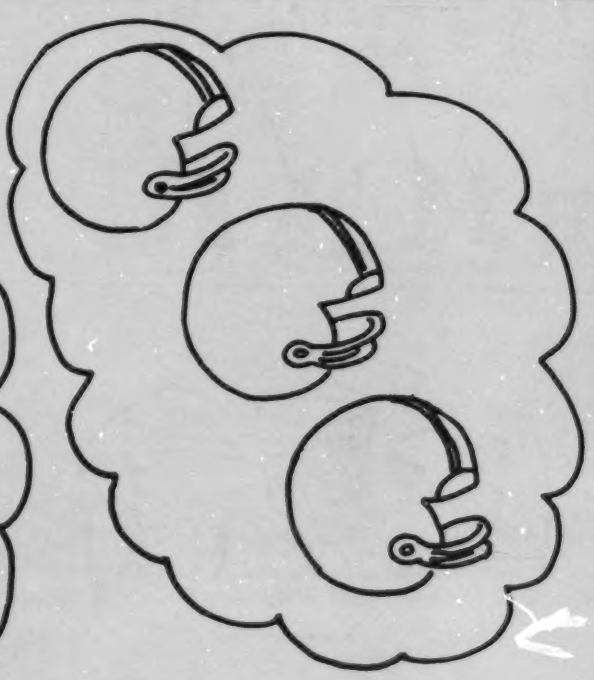
NAME: _____ CLASS: _____

Match. Color the group in each row which has more objects.





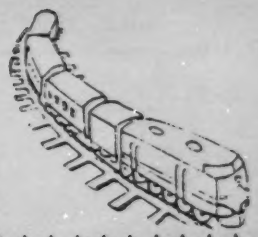




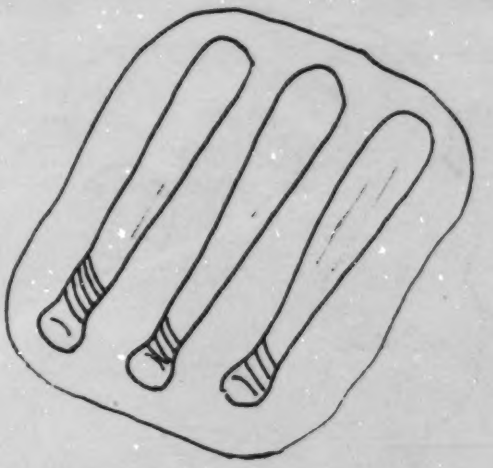
0.01.05.02

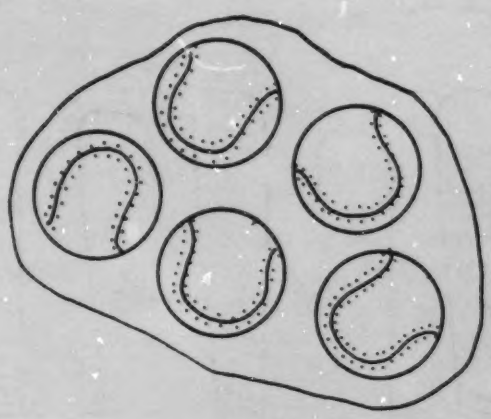
P.O._____

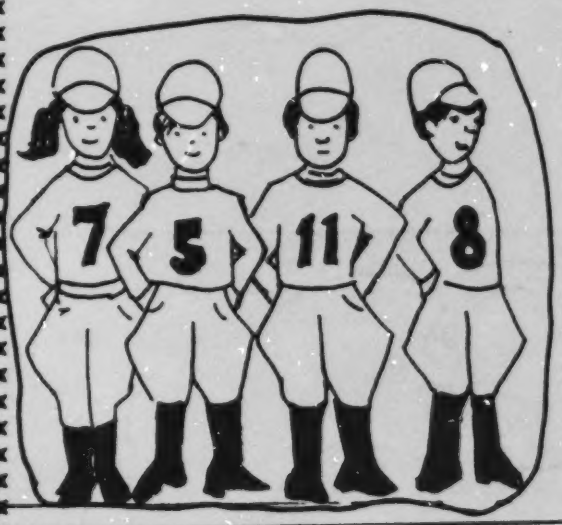
NAME:_____ CLASS:_____

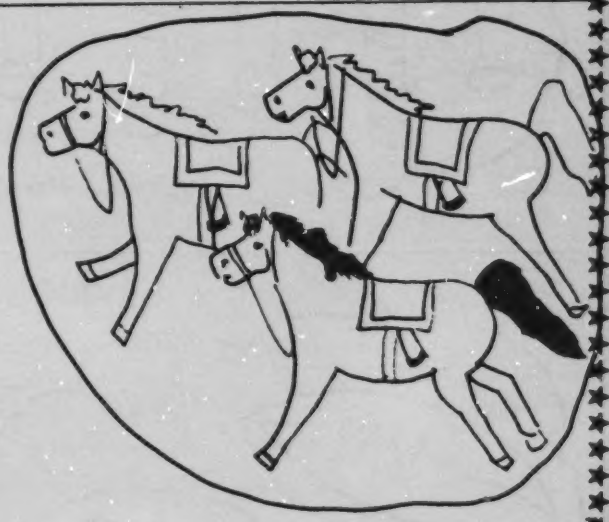


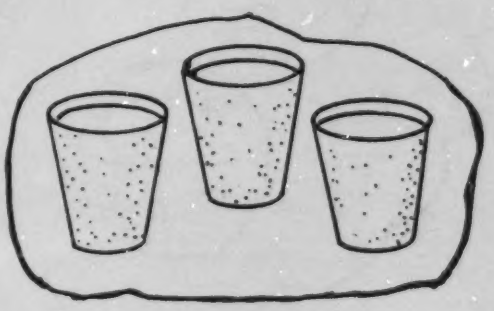
Match.
Color the group which has more objects.

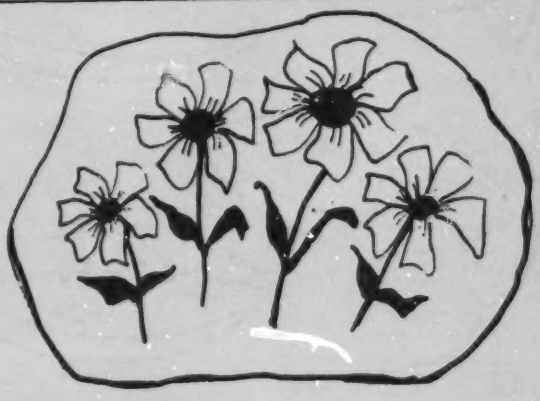








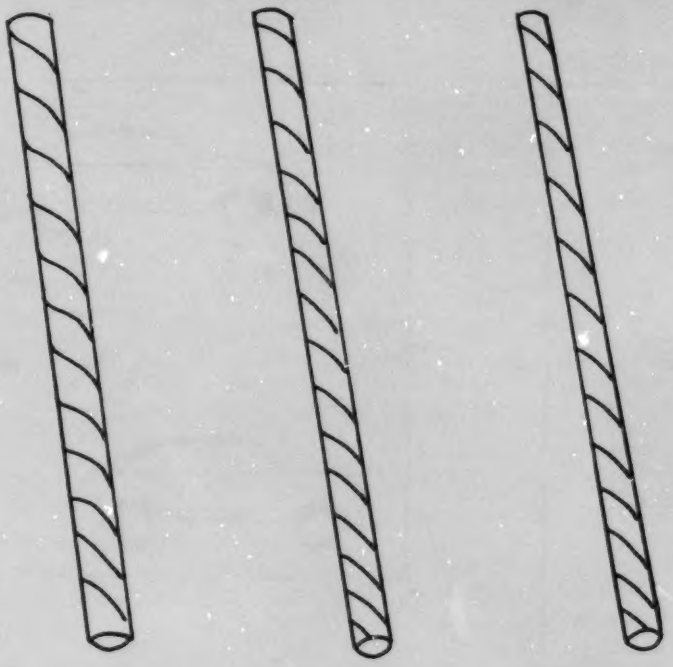


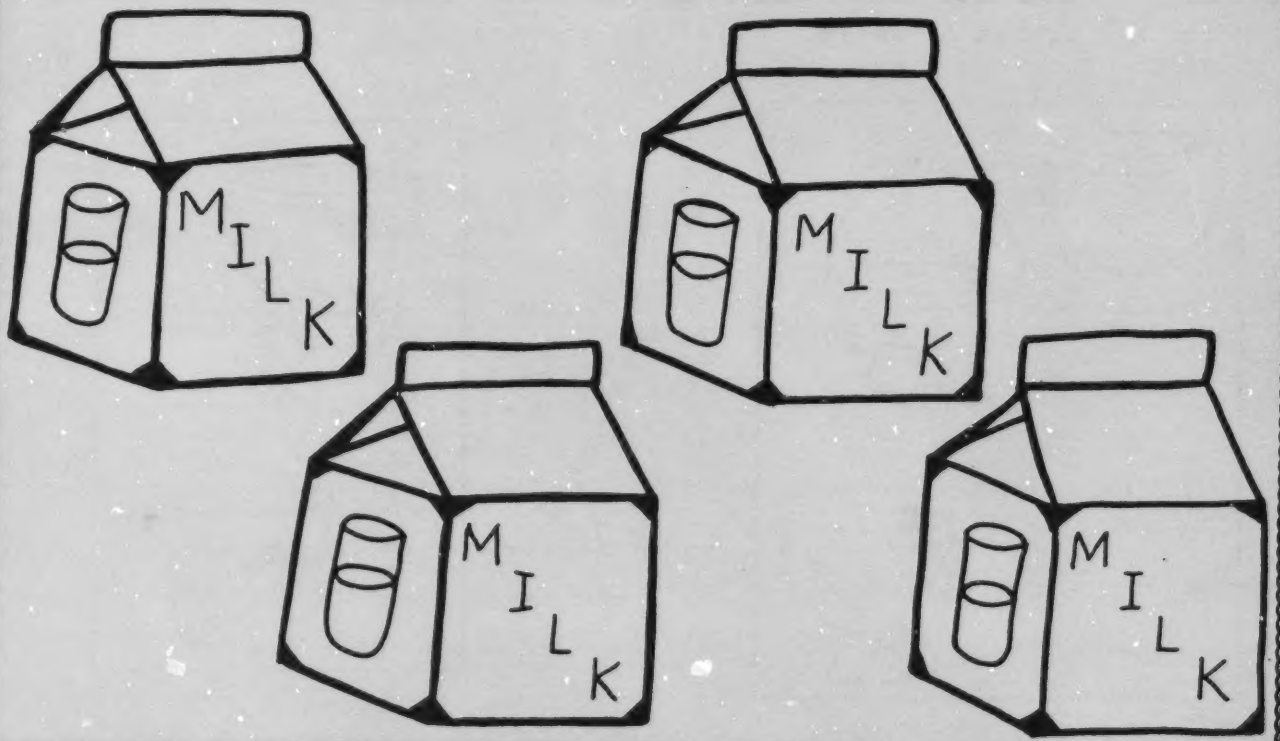


P.O. 0.01.05.03

NAME: _____ CLASS: _____

Match one straw with each milk container.
Which has less? Color that group.

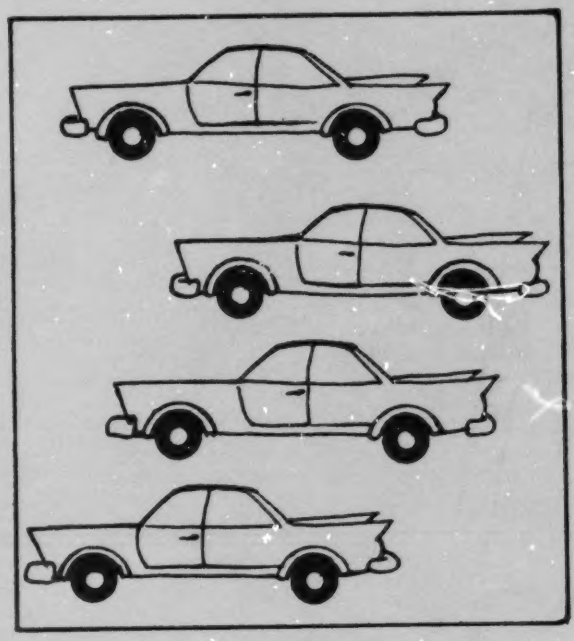


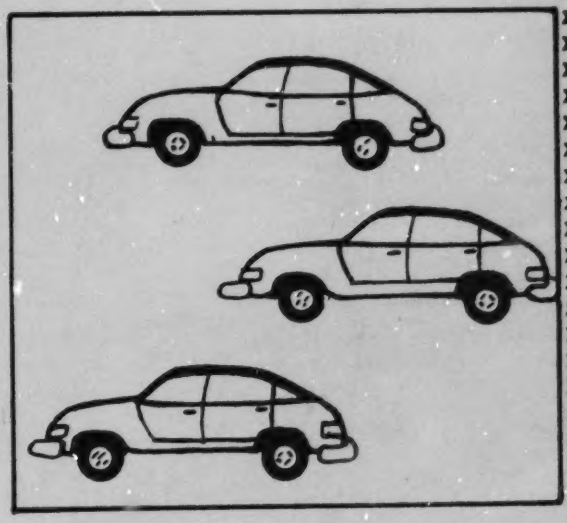


P.O. 0.01.C5.03

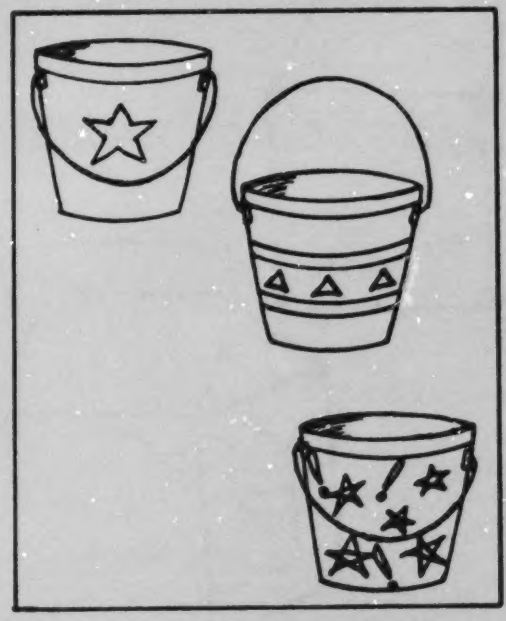
NAME: _____ CLASS: _____

Match the groups of cars. Color the group with less cars.



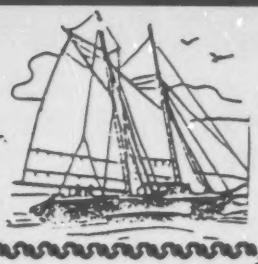


Match the groups of pails. Color the group with less pails.



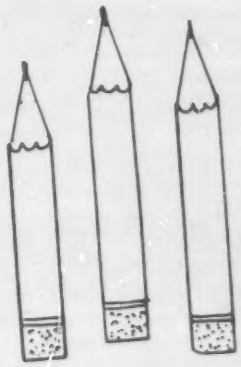
P.O. 0.01.05.04

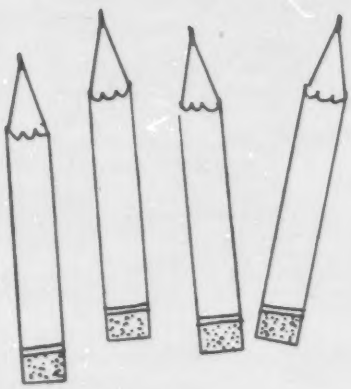
NAME:_____ CLASS:_____



Match. Circle the group that has more people or objects.

X the group that has less people or objects.

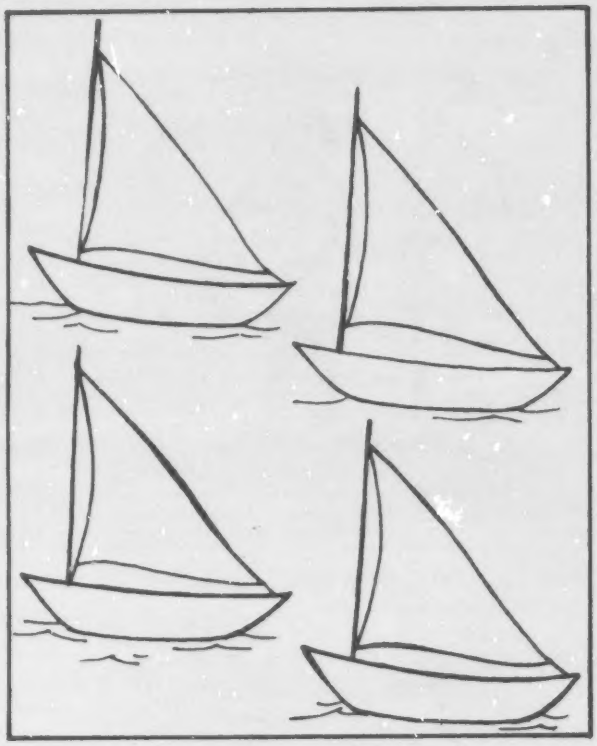


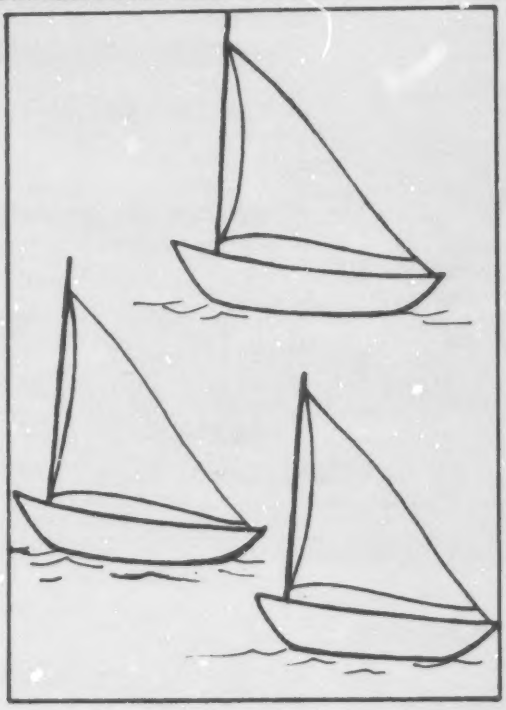


P.O. 0.01.05.04

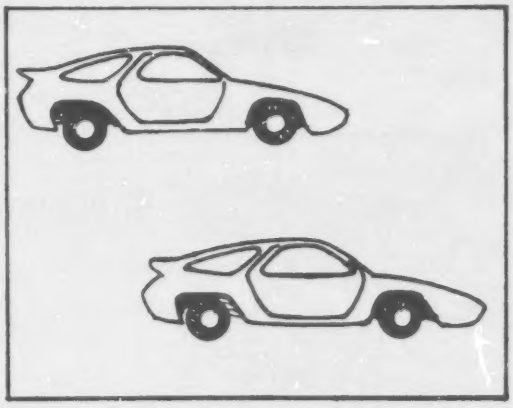
NAME: _____ CLASS: ____

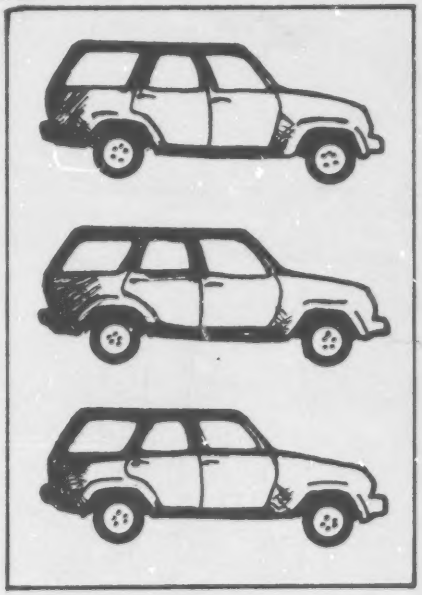
Match the boats. Color the group with less boats.





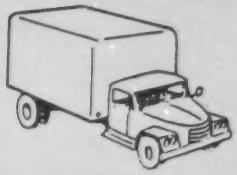
Match the cars. Color the group with more cars.





P.O. 0.01.05.05

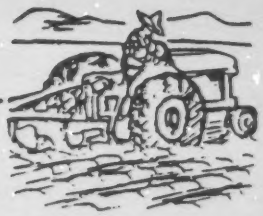
NAME: _____ CLASS: _____



Show that there are as many hooks as coats by matching.
Show that are as many flags as boats by matching.

P.O. 0.01.05.05

NAME: _____ CLASS: ____



A. Draw as many balls as gloves.

B. Draw as many hats as clowns.

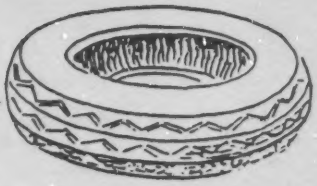
A.

B.

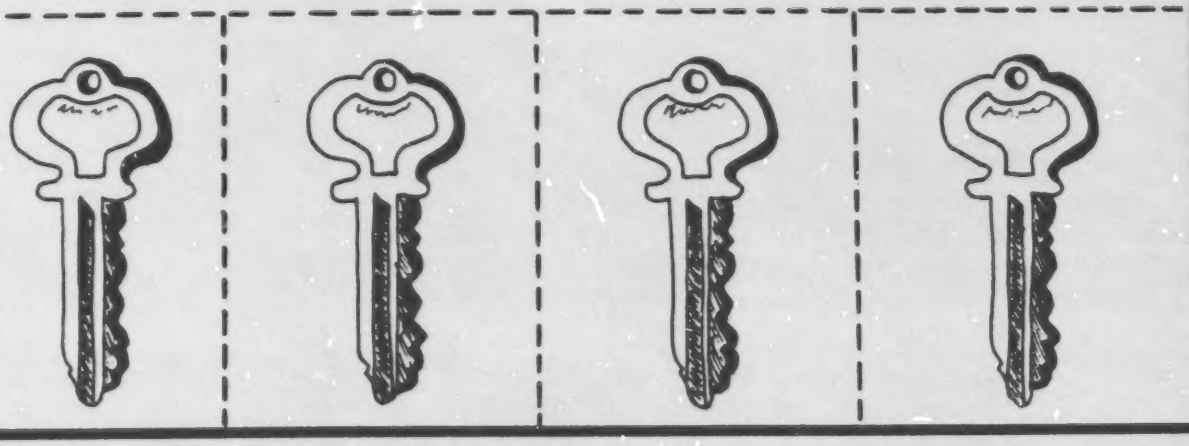
0.01.06.01

P.O. _____

NAME: _____ CLASS: ___



Cut and paste the keys under the locks.
Do you have a key for each lock?
Color the extra object.



P.O. 0.01.06.01

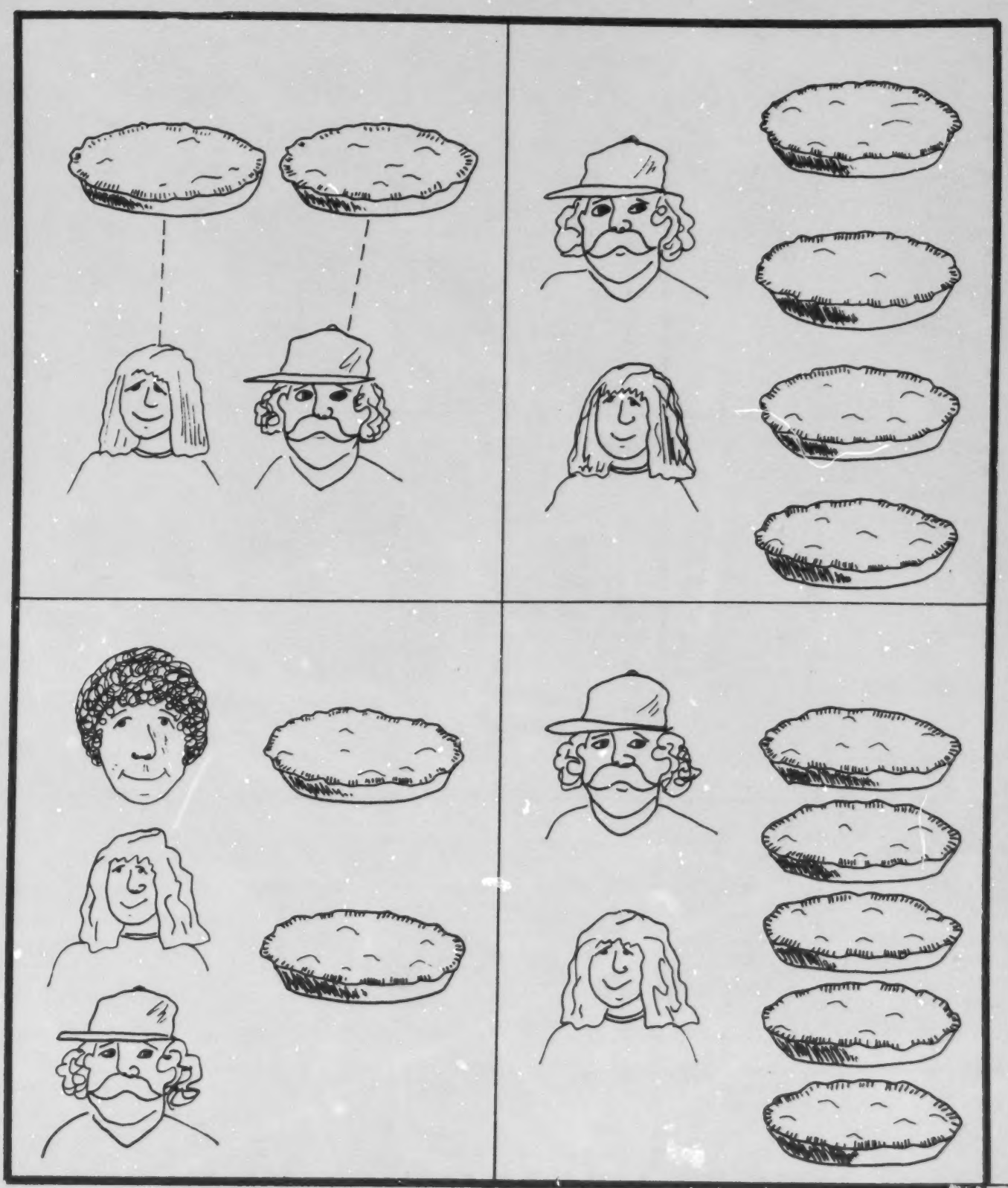
NAME: _____ CLASS: _____

Match the sticks to the lollipops.
Did we have enough lollipops?
Color the extra object.

P.O. 0.01.06.02

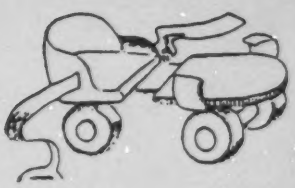
NAME: _____ CLASS: _____

In which pictures can <u>whole</u> pies be equally shared ?
Draw lines to show how to share the pies equally.

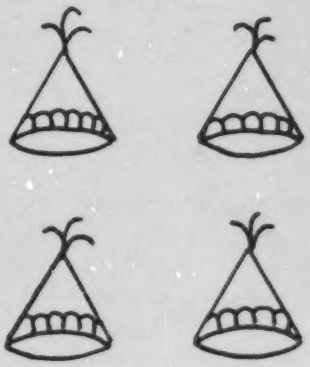


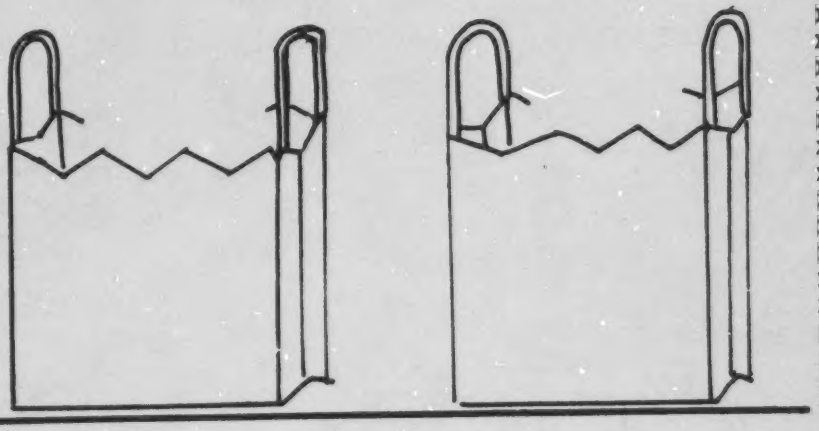
P.O. 0.01.06.02

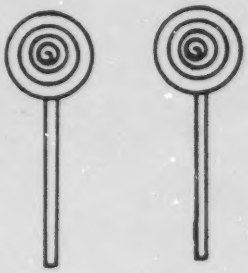
NAME: _____ CLASS: _____

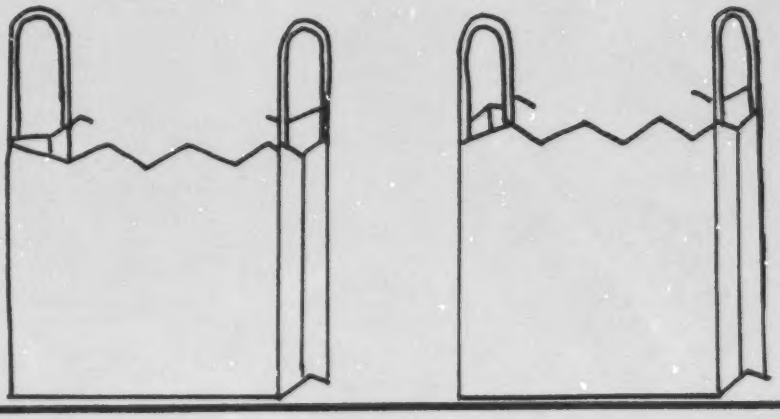


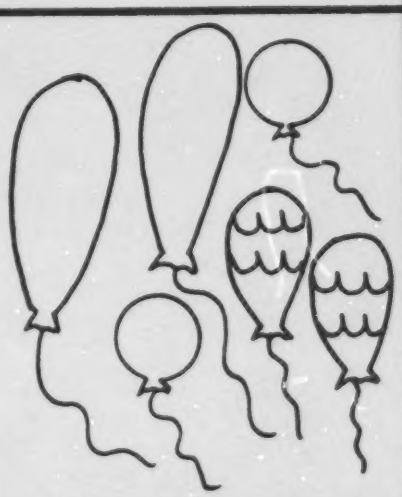
Share the party objects equally in the party bags.

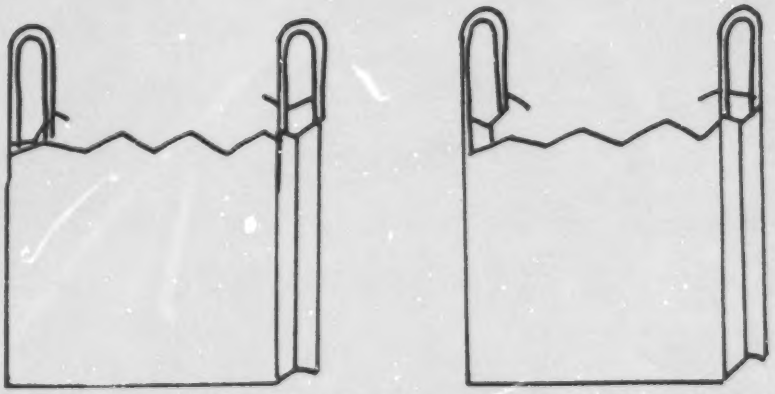








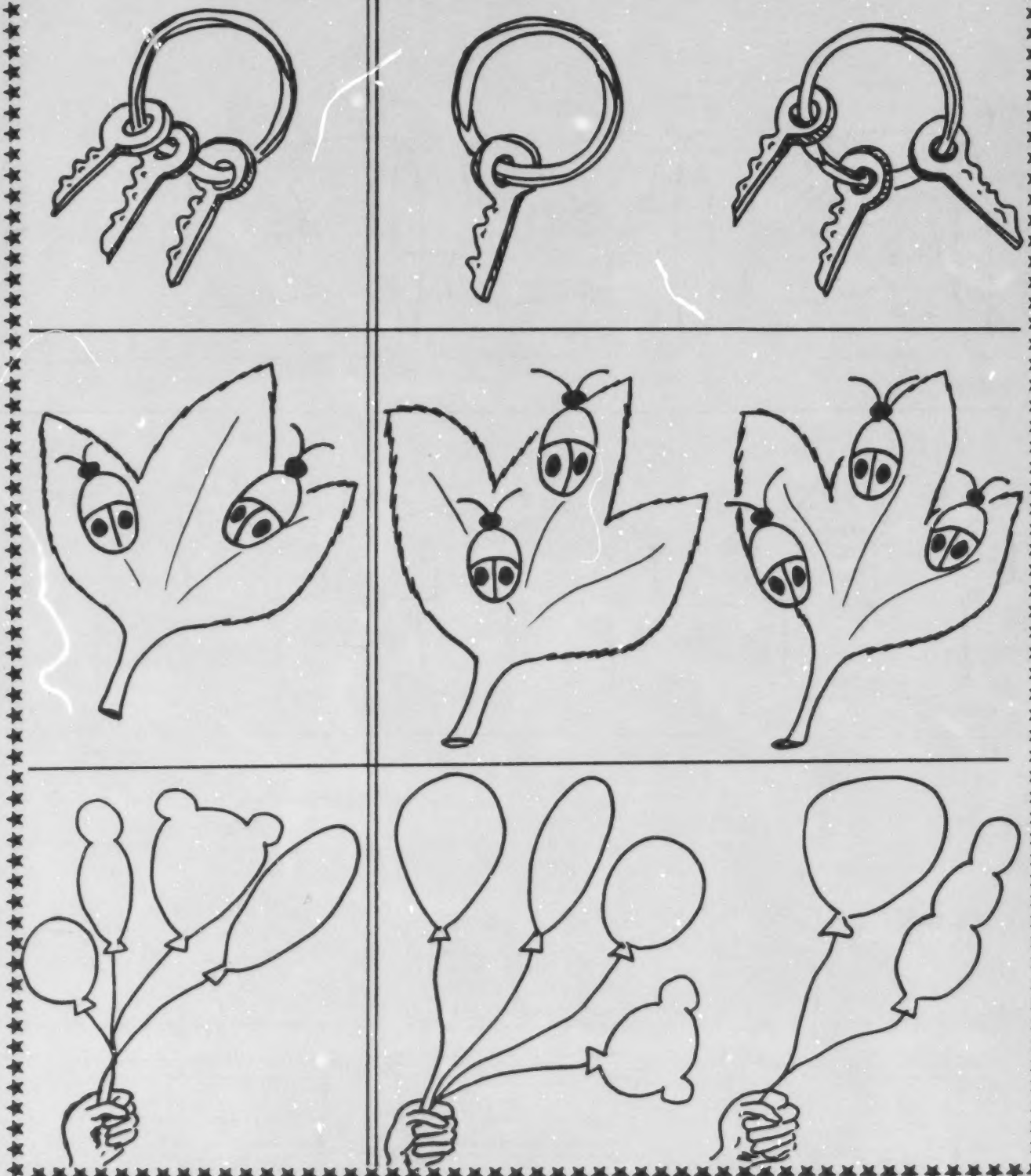




P.O. 0.01.06.03

NAME: _____ CLASS: _____

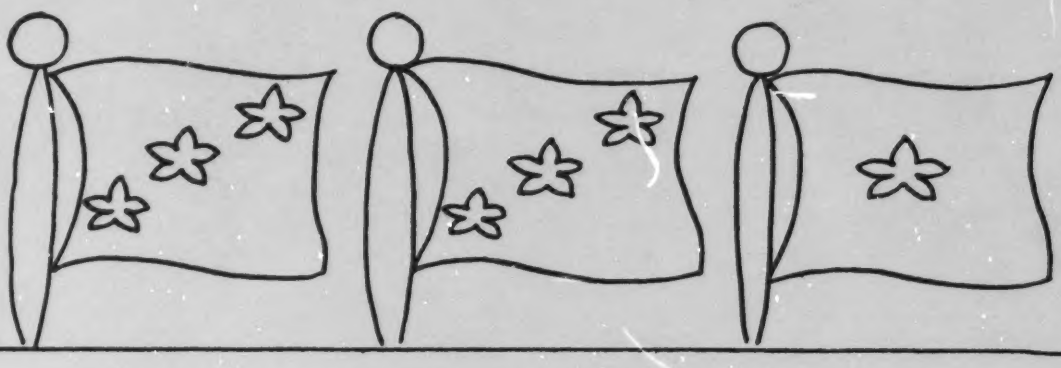
Color the picture which has the same number of objects as the first picture.

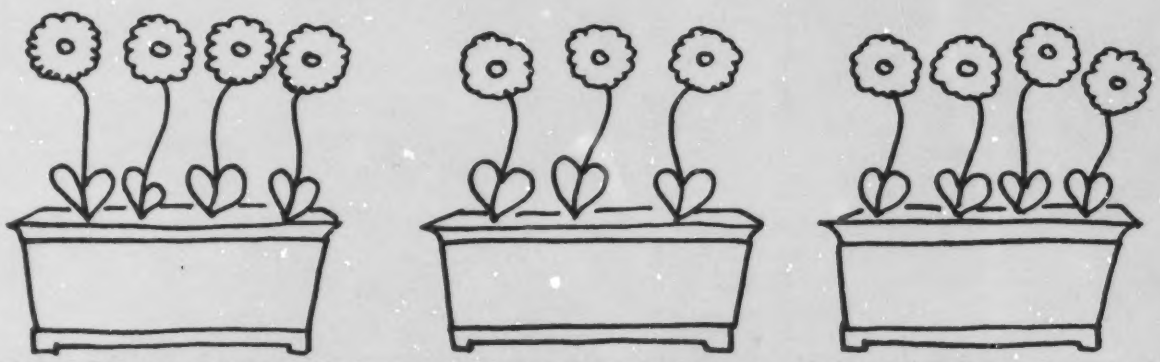


P.O. 0.01.06.03

NAME: _____ CLASS: _____

Color the object in each group that has a different amount.

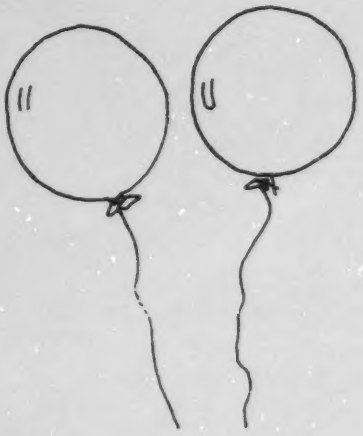


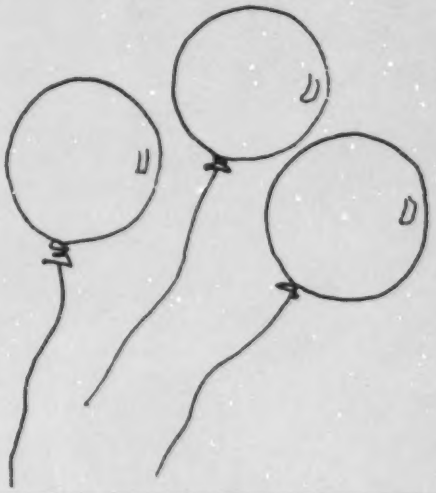


P.O. 0.01.06.04

NAME: _____ CLASS: _____

Circle the group that has less.





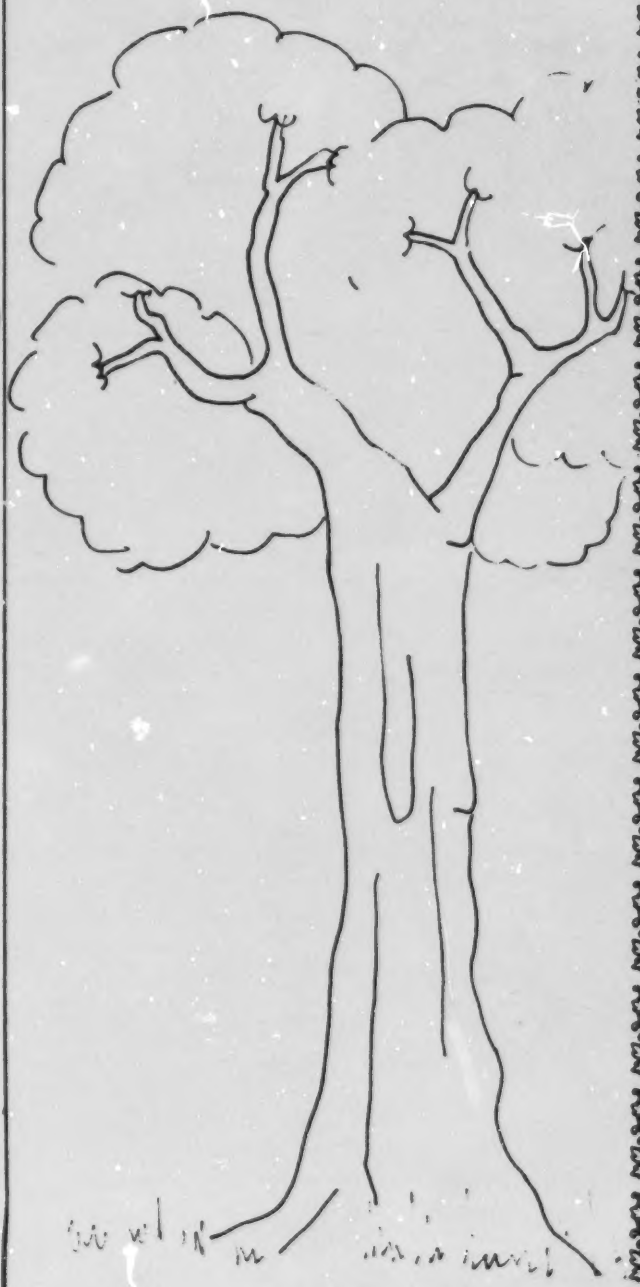
P.O. 0.01.06.04

NAME: _____ CLASS: _____

A. Look at the apples on this tree.
B. Draw more apples on this tree than there are on tree A.

A.

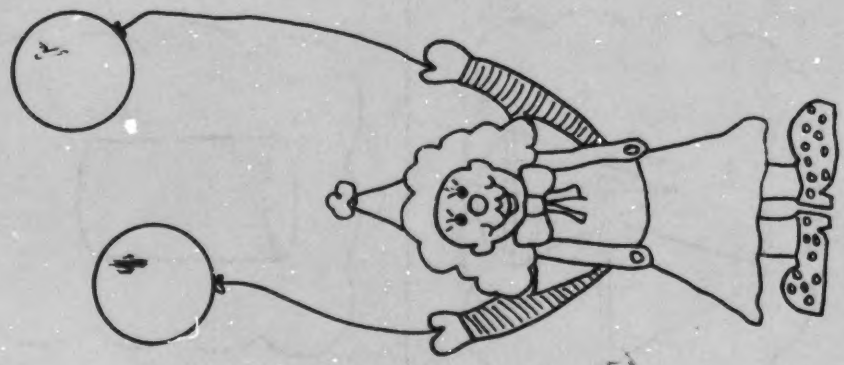
B.

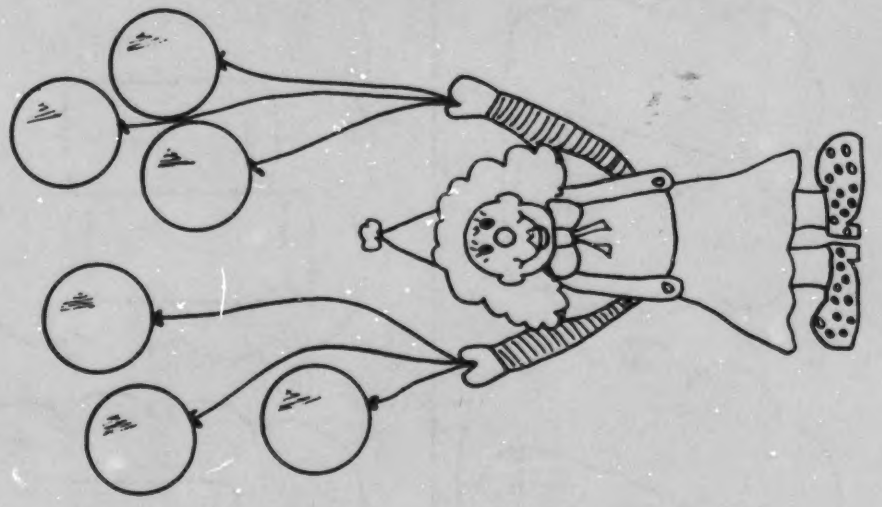


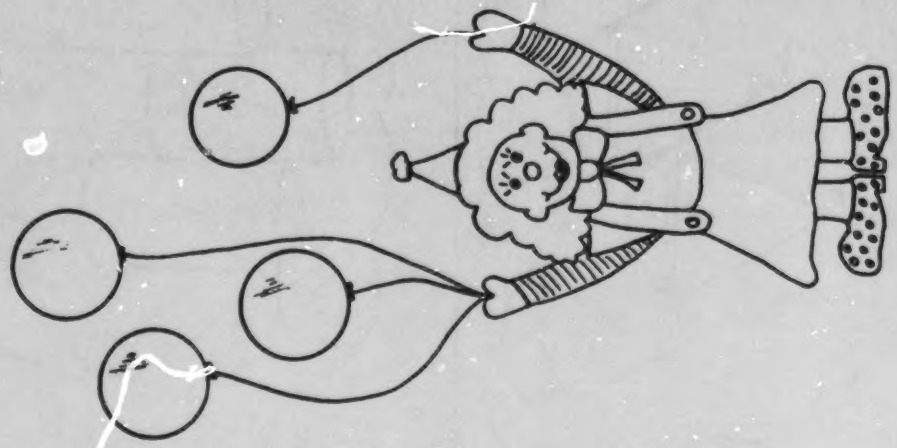
P.O. 0.01.06.05

NAME: _____ CLASS: _____

Color the clown with the most balloons red.
Color the clown with the least number of balloons blue.

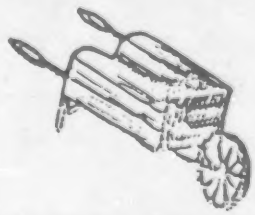




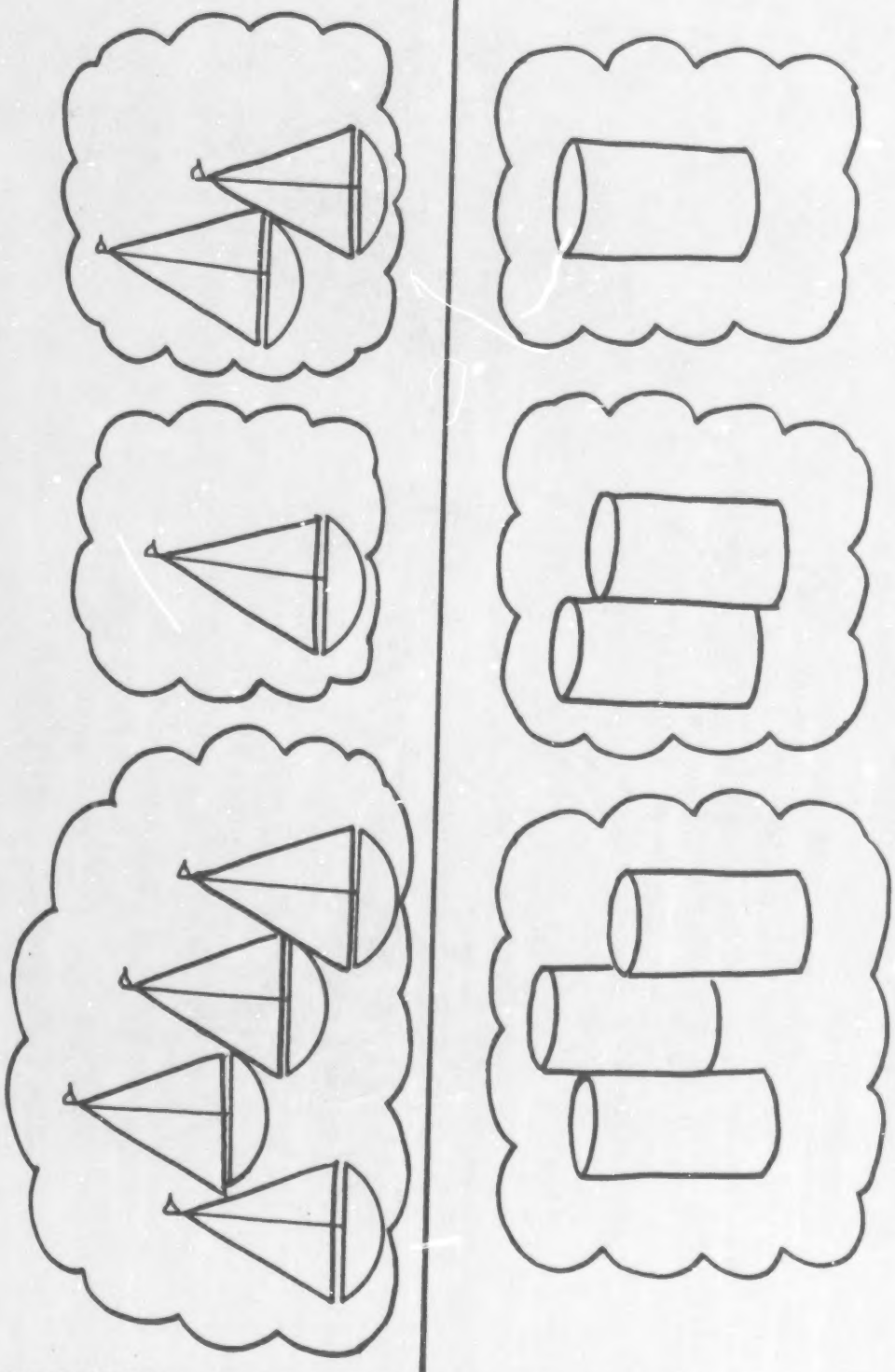


P.O. 0.01.06.05

NAME: _____ CLASS: _____



Color the group that has the most boats brown.
Color the group that has the least cans orange.



P.O. 0.01.06.06

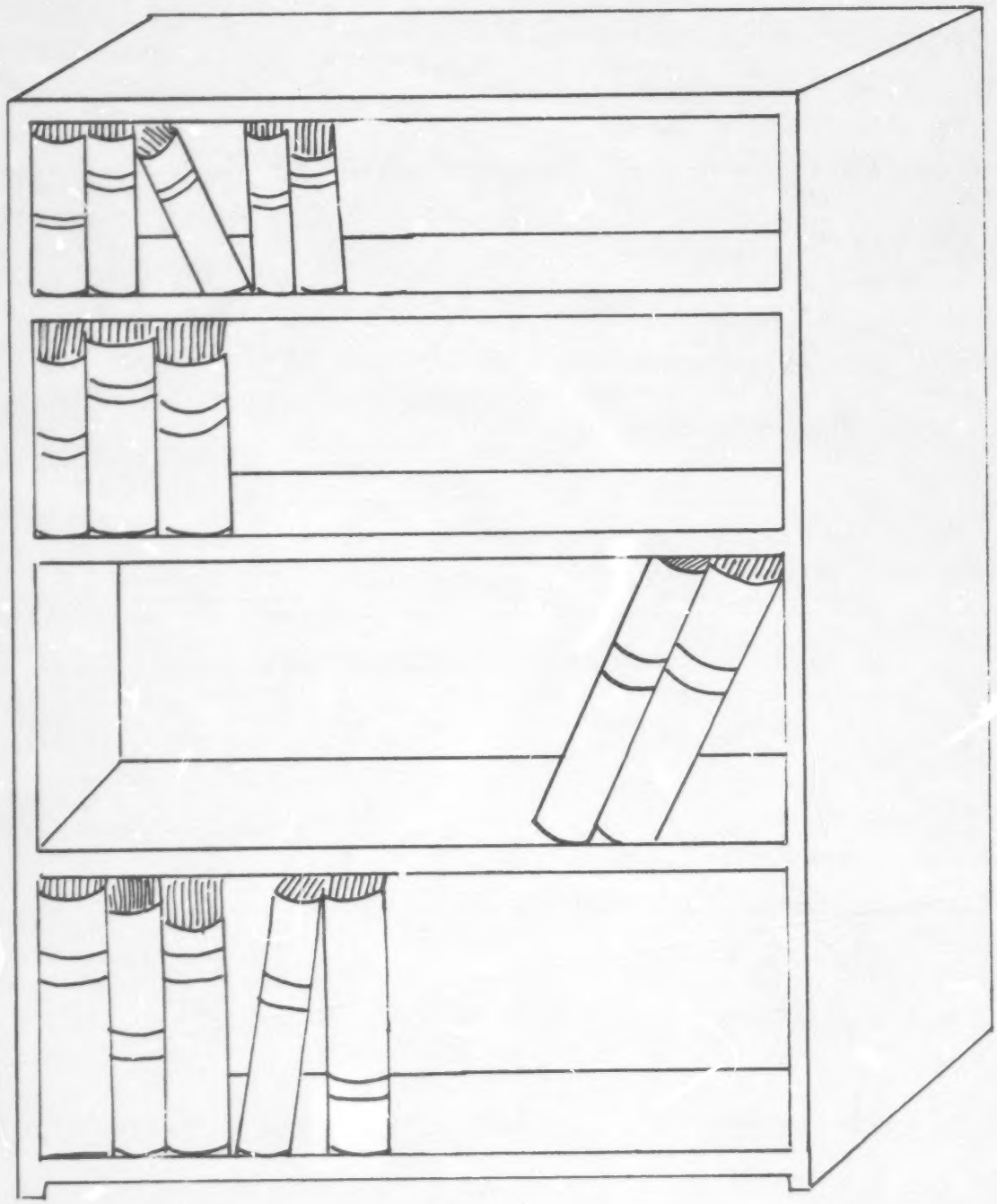
NAME: _____ CLASS: _____

Color the clown holding the fewest balloons red.
Color the clowns holding the same number of balloons green.

P.O. 0.01.06.06

NAME:_____ CLASS:_____

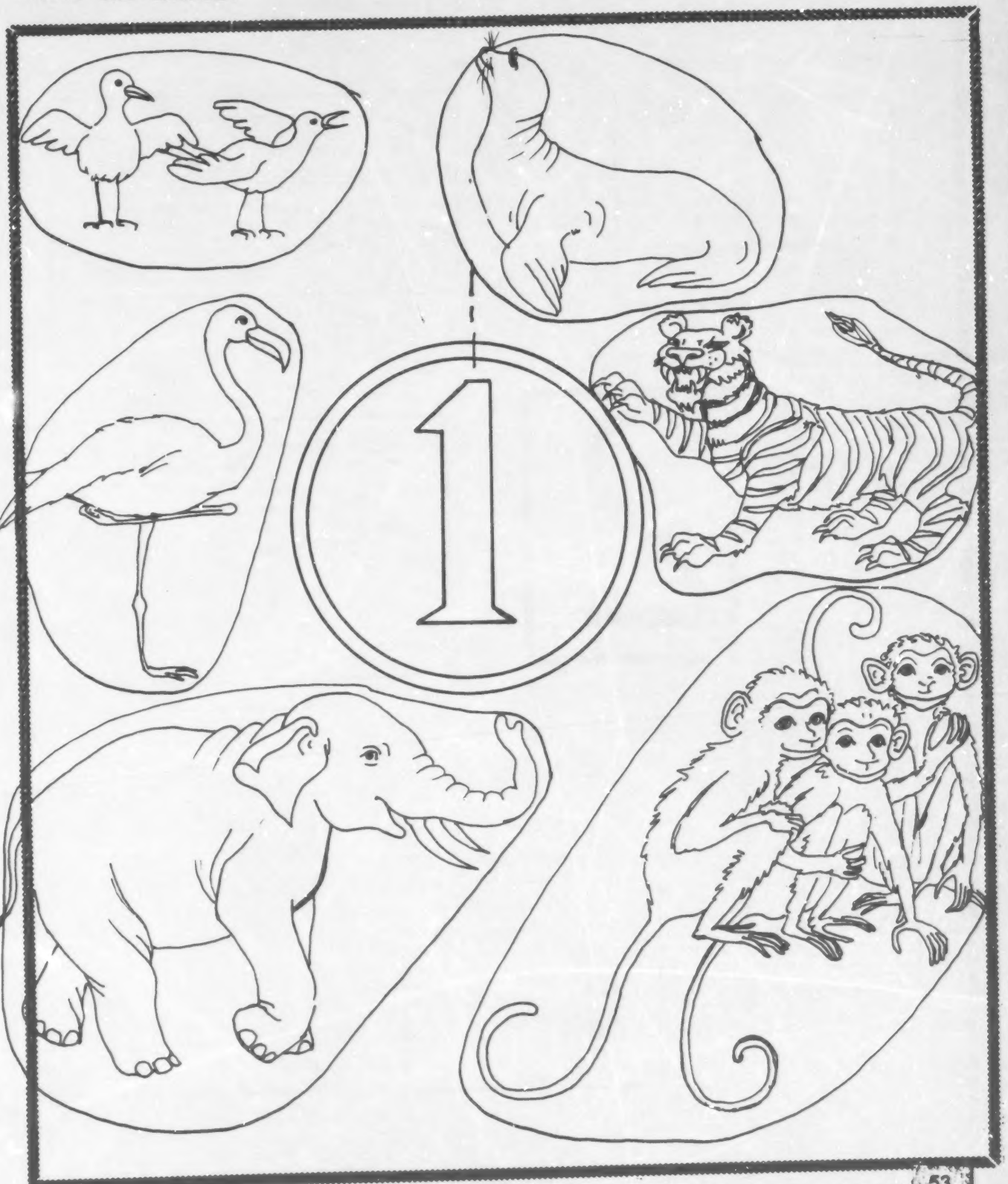
Which shelf has as many books as the top shelf ? Color those books green. Which shelf has the fewest books ? Color those books blue.



P.O. 0.01.07.01

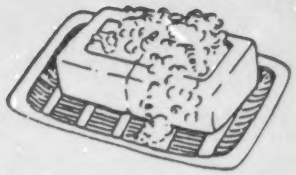
NAME: _____ CLASS: _____

Draw a line from the numeral 1 to each picture that shows one animal.



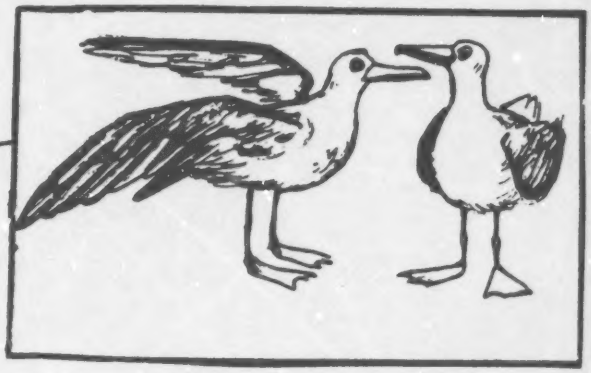
P.O. 0.01.07.01

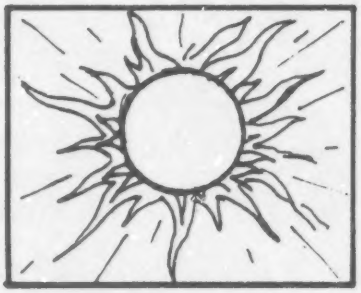
NAME: _____ CLASS: _____

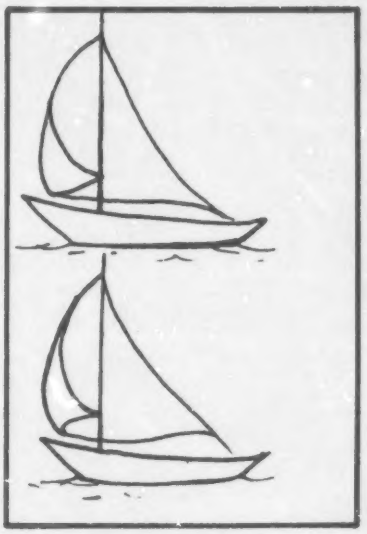


Draw a line from groups of 2 to the numeral 2.

2

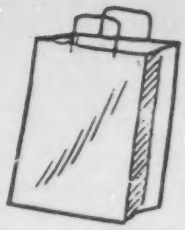






P.O. 0.01.07.01

NAME: _____ CLASS: _____

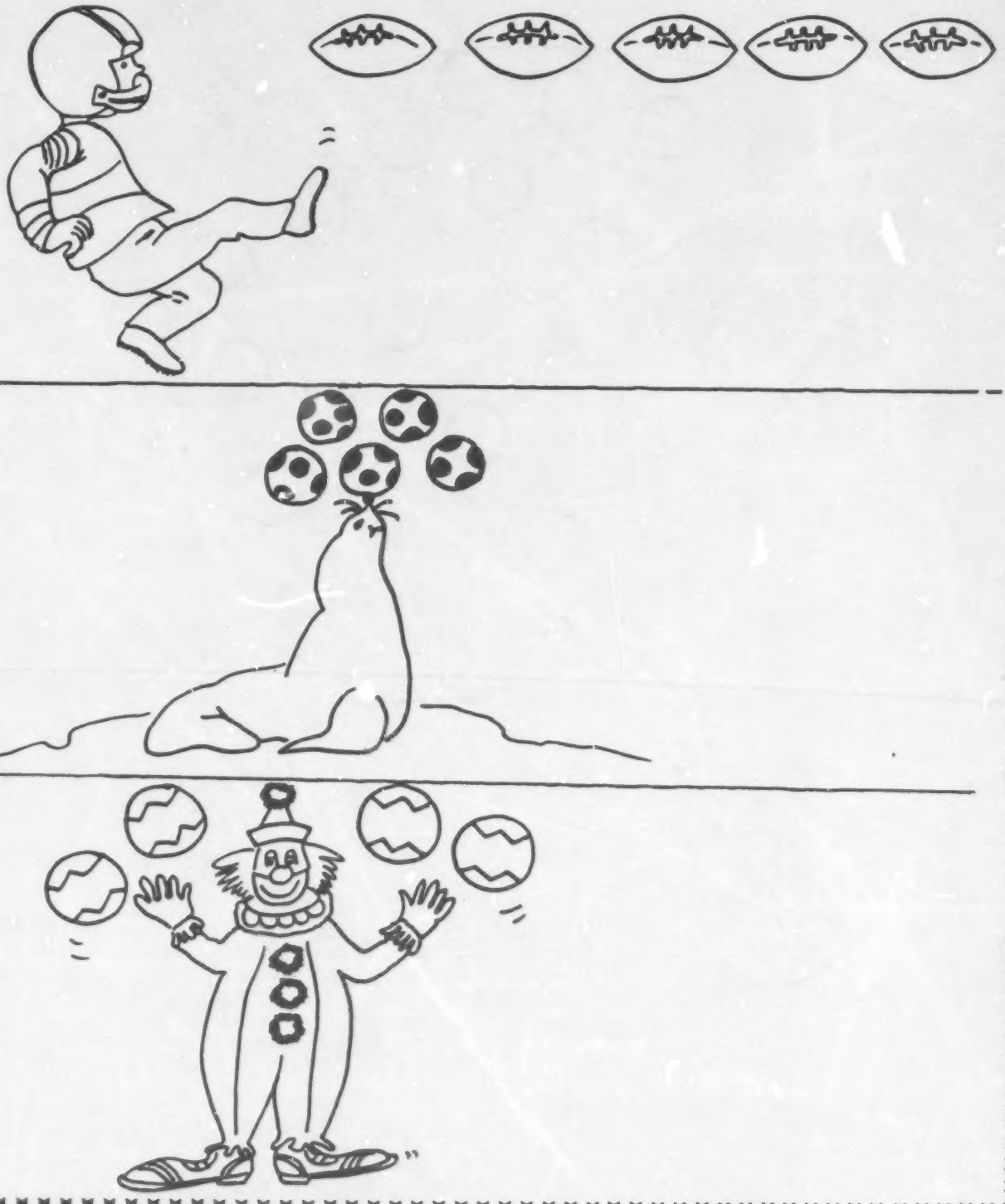


Color 3 dots in each part of the umbrella.

P.O. 0.01.07.01

NAME: _____ CLASS: _____

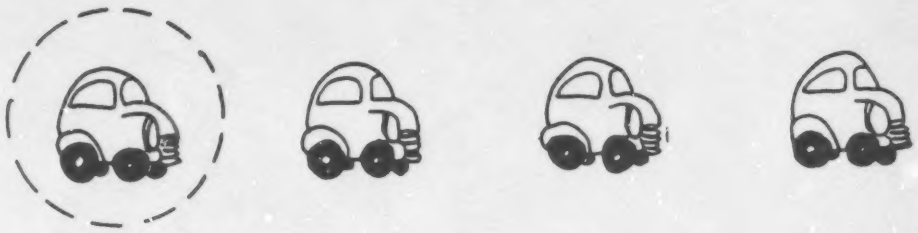
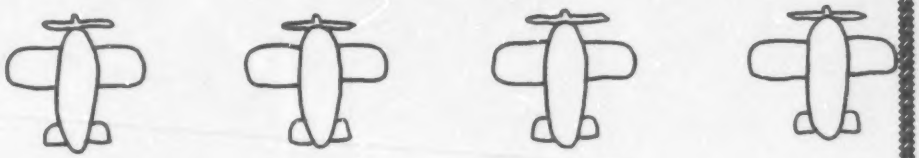
Color four balls in each picture.



P.O. 0.01.07.01

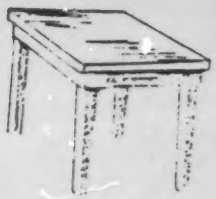
NAME: _____ CLASS: _____

Circle the number of objects shown by the numeral.

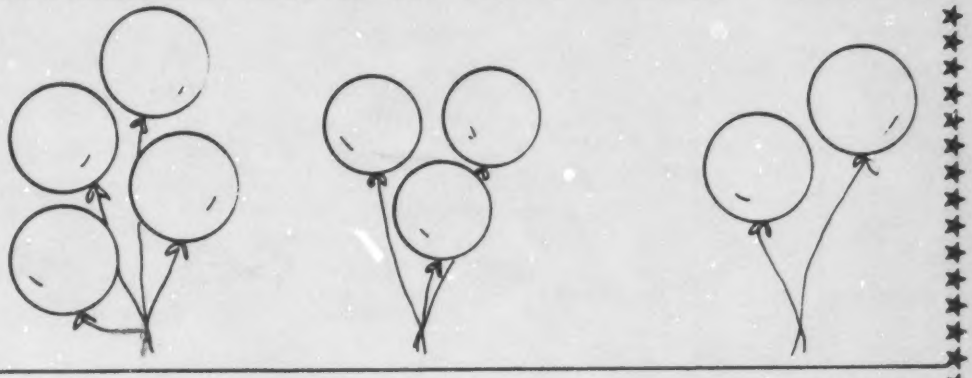
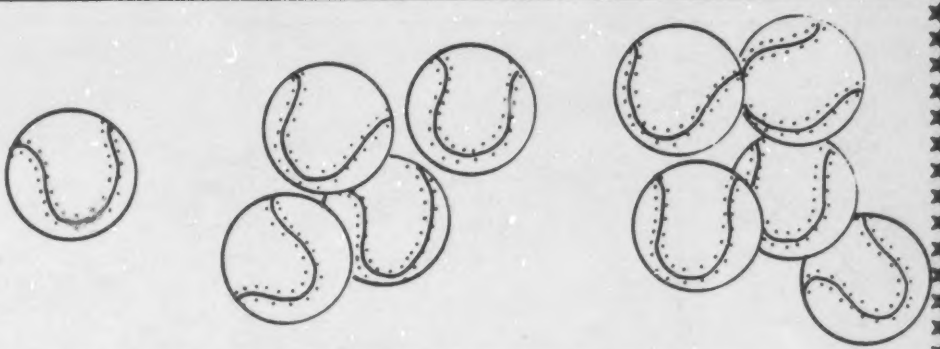
1	
2	
3	
4	

P.O. 0.01.07.01

NAME: _____ CLASS: _____

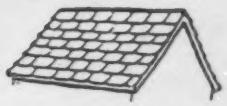


Color the group that matches each numeral.

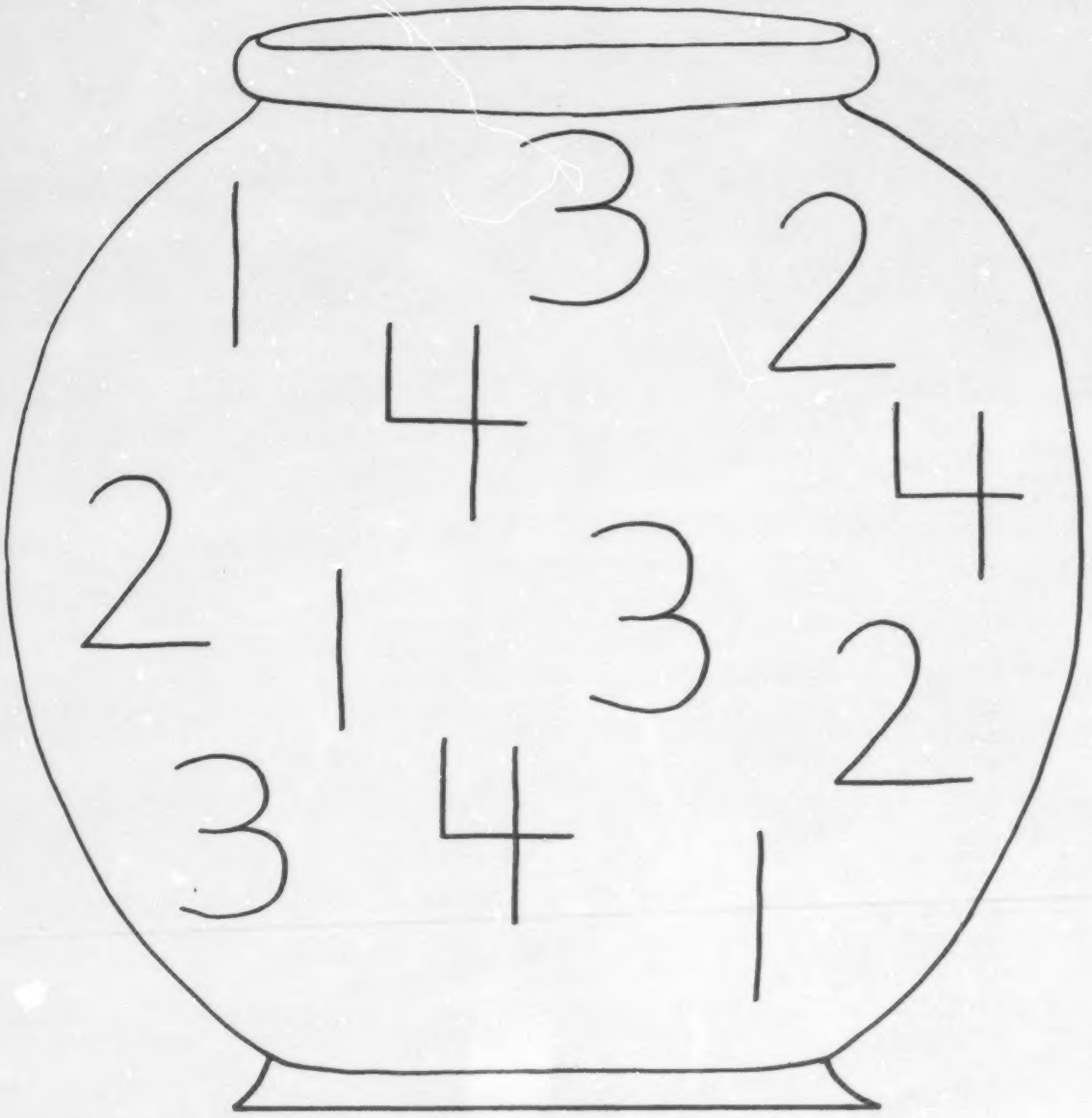
2	
4	
1	
3	

P.O. 0.01.07.02

NAME: _____ CLASS: _____



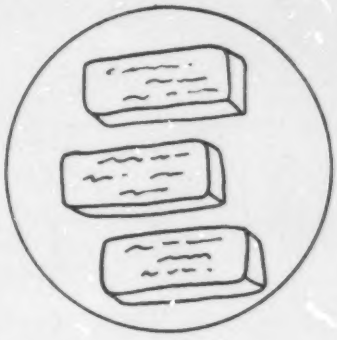
Circle each numeral 1 blue. Circle each numeral 2 red.
Circle each numeral 3 green. Circle each numeral 4 brown.



P.O. 0.01.07.02

NAME: _____ CLASS: _____

Draw a line from each group to the box which tells how many are in the group.



3

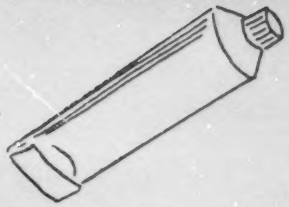
4

2

1

P.O. 0.01.07.03

NAME: _____ CLASS: _____



Trace the numerals.

1 1 1 1 1

2 2 2 2 2

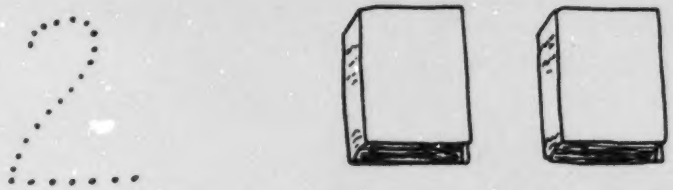
3 3 3 3 3

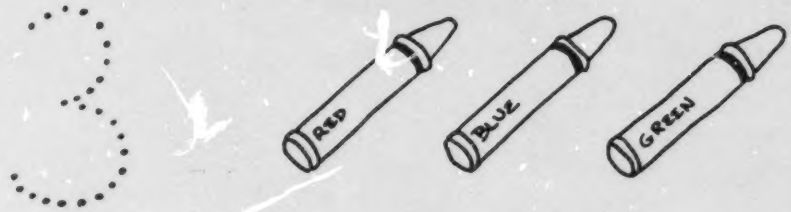
4 4 4 4 4

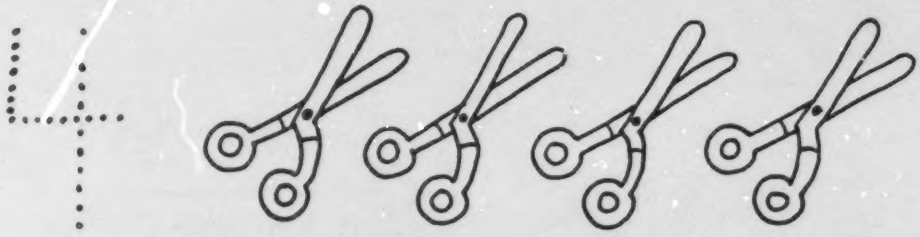
P.O. 0.01.07.03

NAME: _____ CLASS: _____

Write the numeral which shows how many.



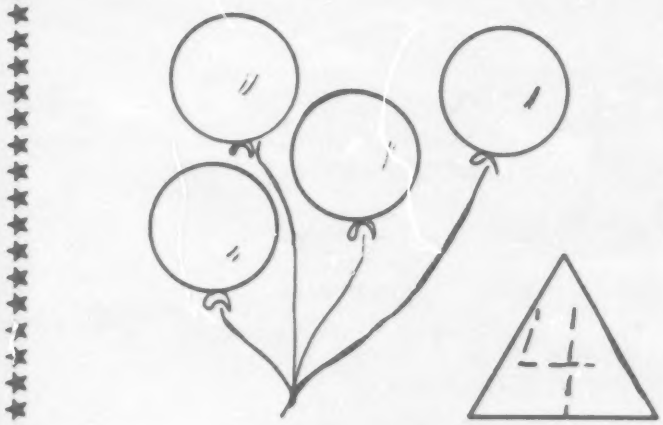


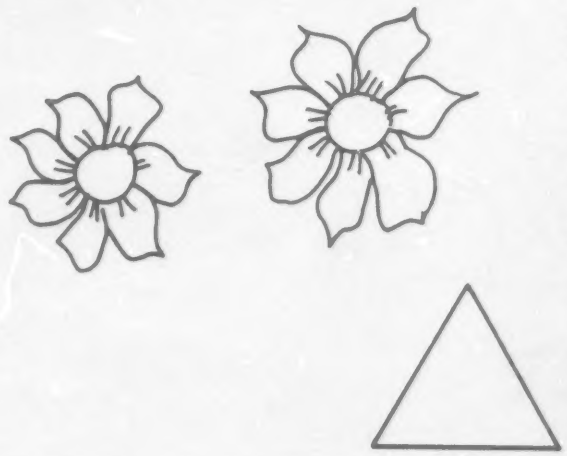


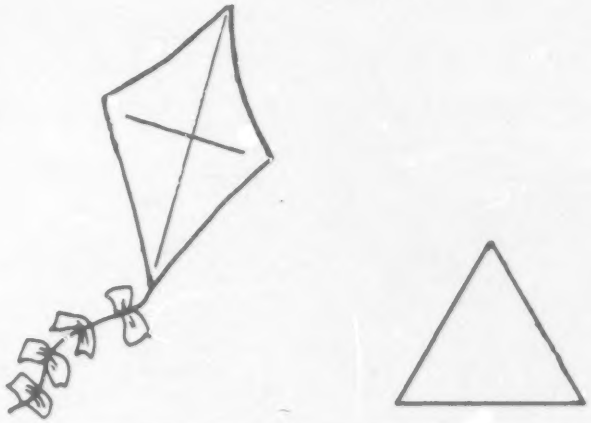
P.O. 0.01.07.03 & .04

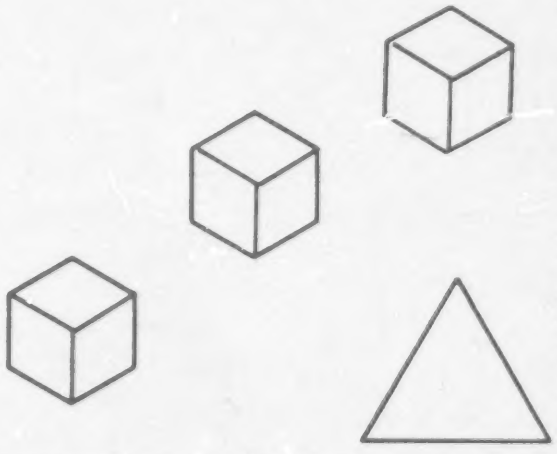
NAME: _____ CLASS: _____

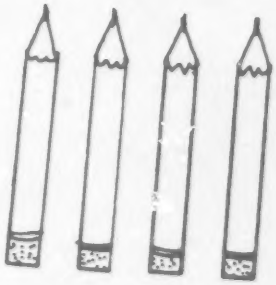
Write the numeral for the amount of objects in each group.

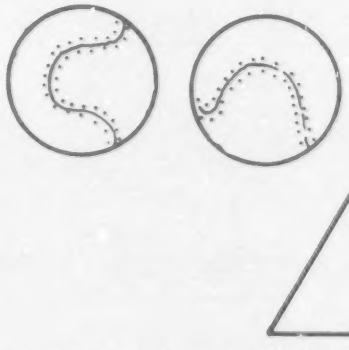








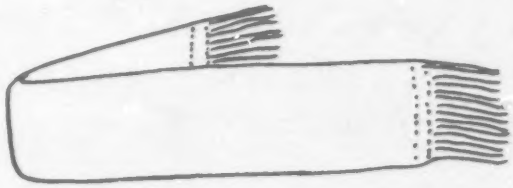




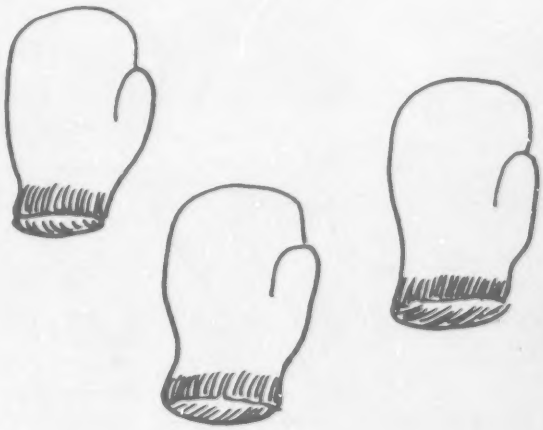
P.O. 0.01.07.04

NAME: _____ CLASS: _____

Circle the numeral that tells how many are in each group.

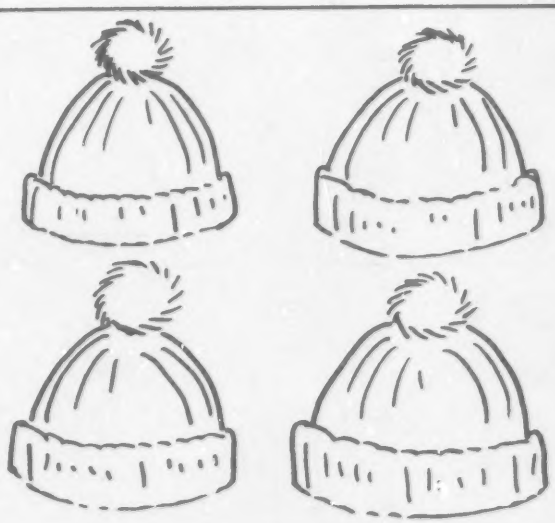


1 2 3 4



1 2 3 4

1 2 3 4



1 2 3 4

P.O. 0.01.07.04

NAME: _____ CLASS: _____

Circle the numeral which tells how many objects are in the group.

1 2 3 (4)

1 2 3 4

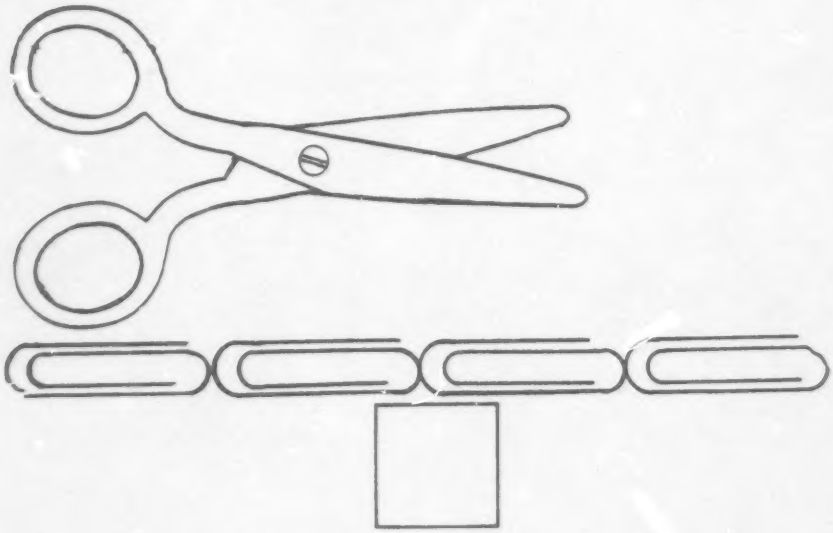
1 2 3 4

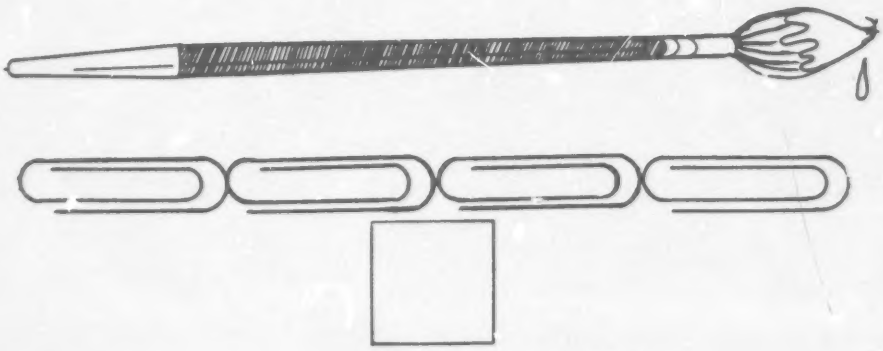
1 2 3 4

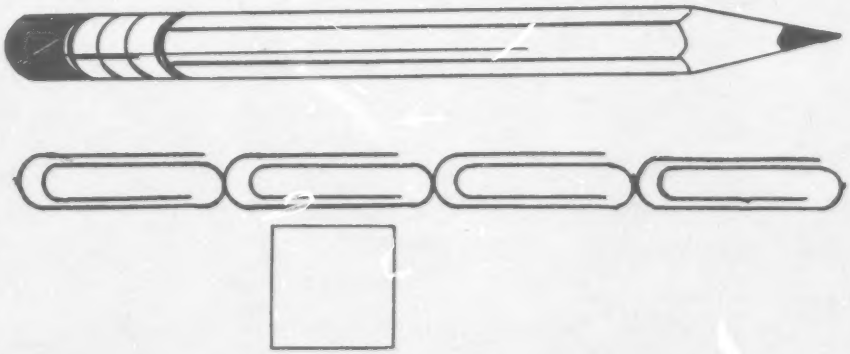
P.O. 0.10.01.01

NAME: _____ CLASS: _____

How many paper clips long is each object?

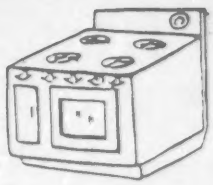




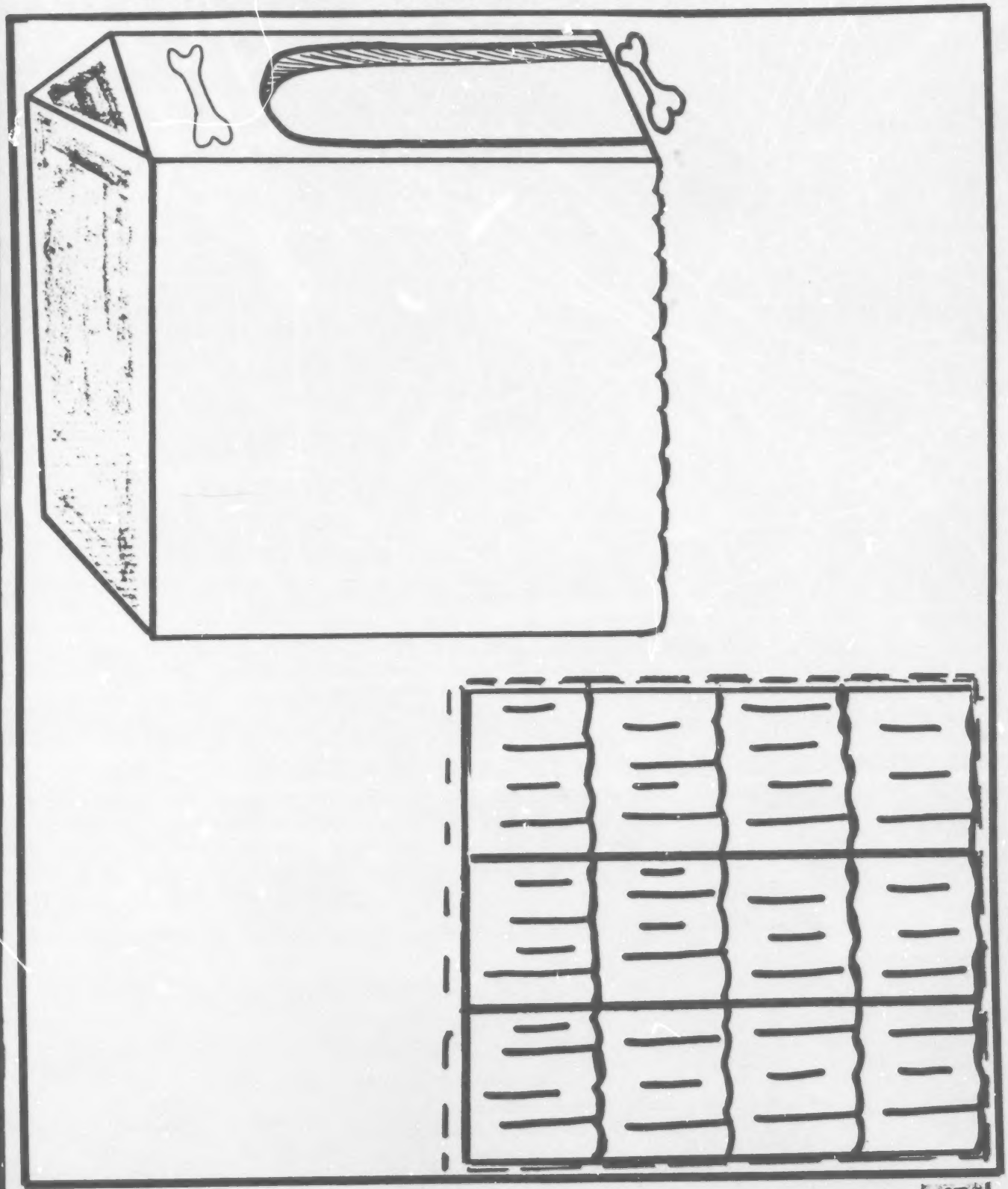


P.O. 0.10.01.01

NAME: _____ CLASS: _____

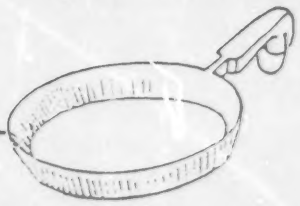


Cut and paste the shingles on the doghouse.
How many shingles long is the doghouse ?
How many shingles high is the doghouse ?

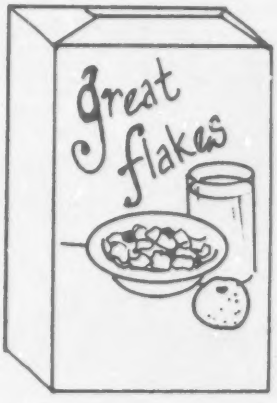


P.O. 0.10.01.02

NAME: _____ CLASS: _____



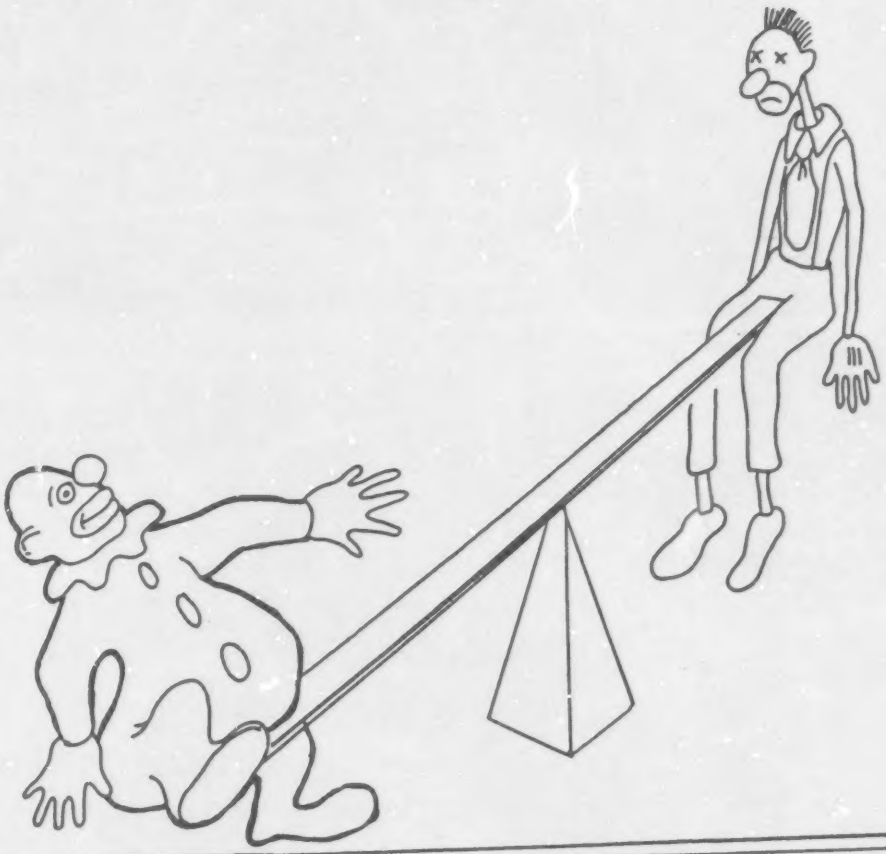
Color the containers which hold the most.
X the containers which hold the least.

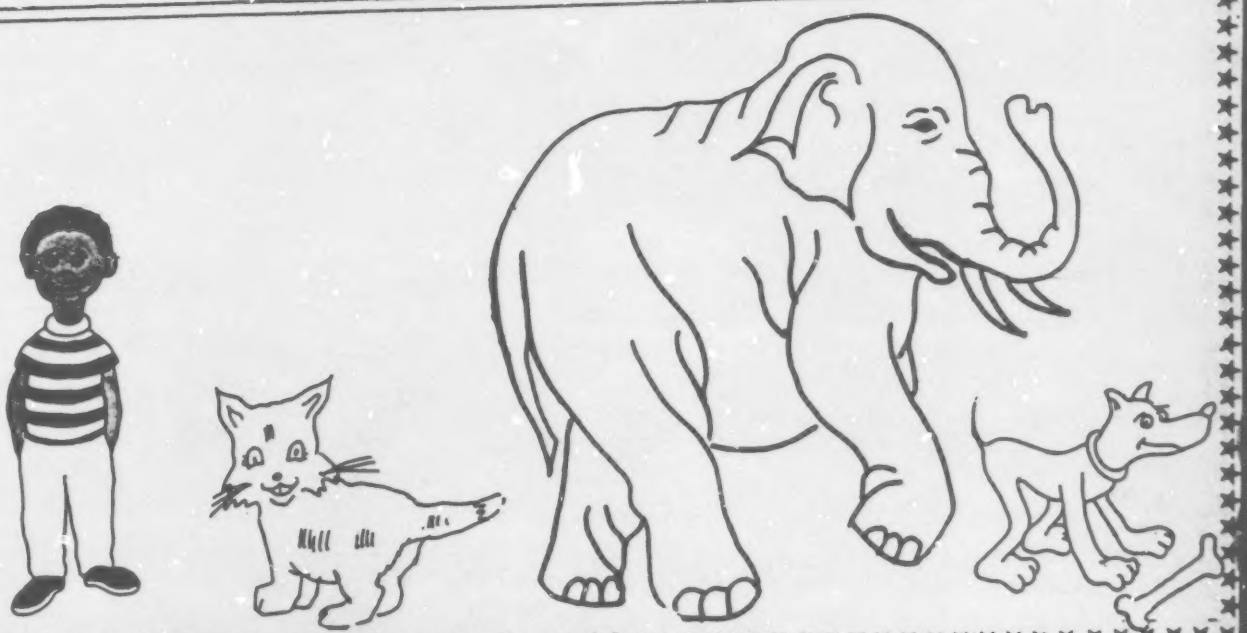


P.O. 0.10.01.03

NAME: _____ CLASS: _____

Color the heavier clown red and the lighter clown purple.
Color the animal(s) which is (are) heavier than the boy.





P.O. 0.10.02.01

NAME:_____ CLASS:_____

X the package which is lighter. Color the package which is heavier.

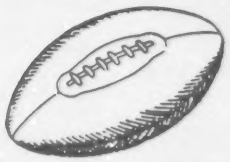
P.O. 0.10.02.02

NAME: _____ CLASS: _____

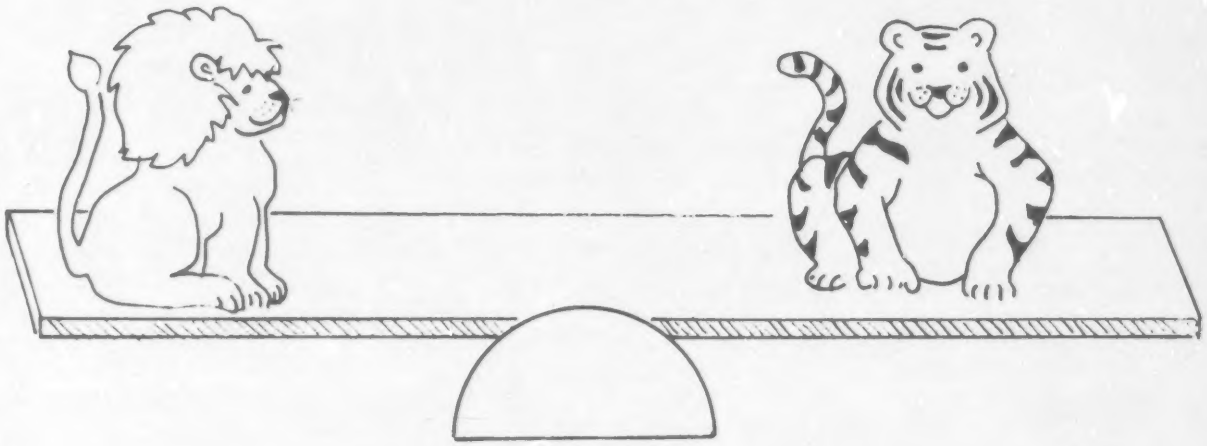
Circle the pupil who weighs more.
X the pupil who weighs less.

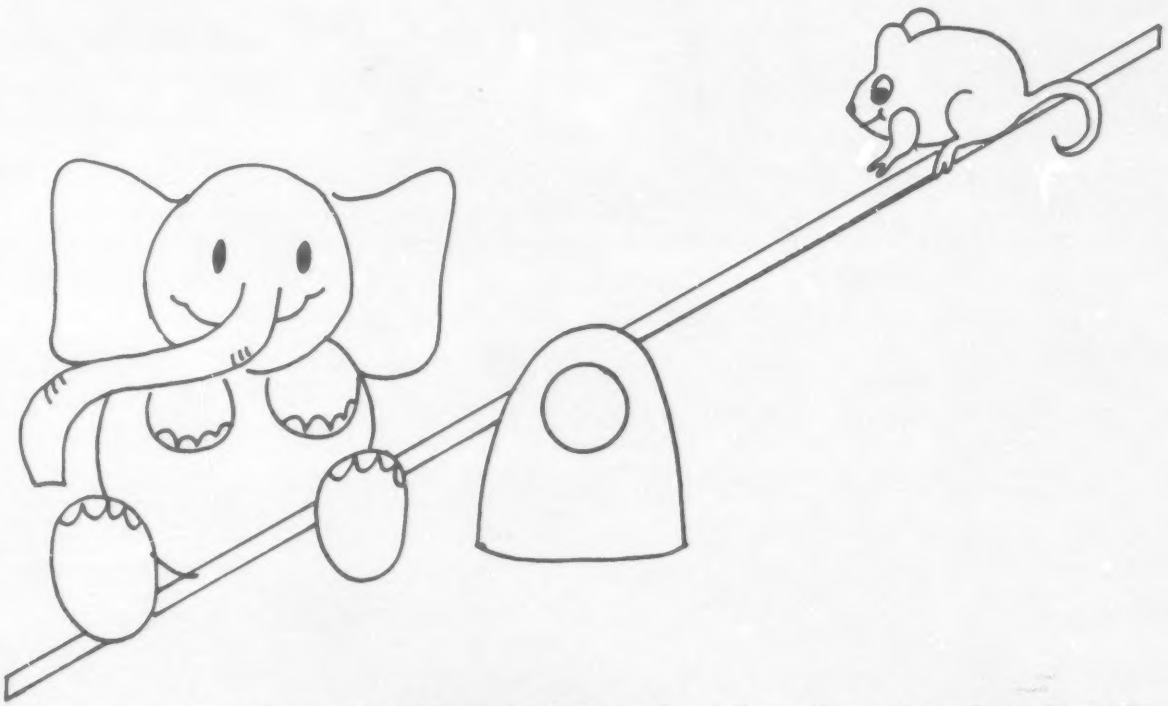
P.O. 0.10.02.02

NAME: _____ CLASS: _____



Color the animals that weigh the same blue.
Color the animals that do not weigh the same yellow.



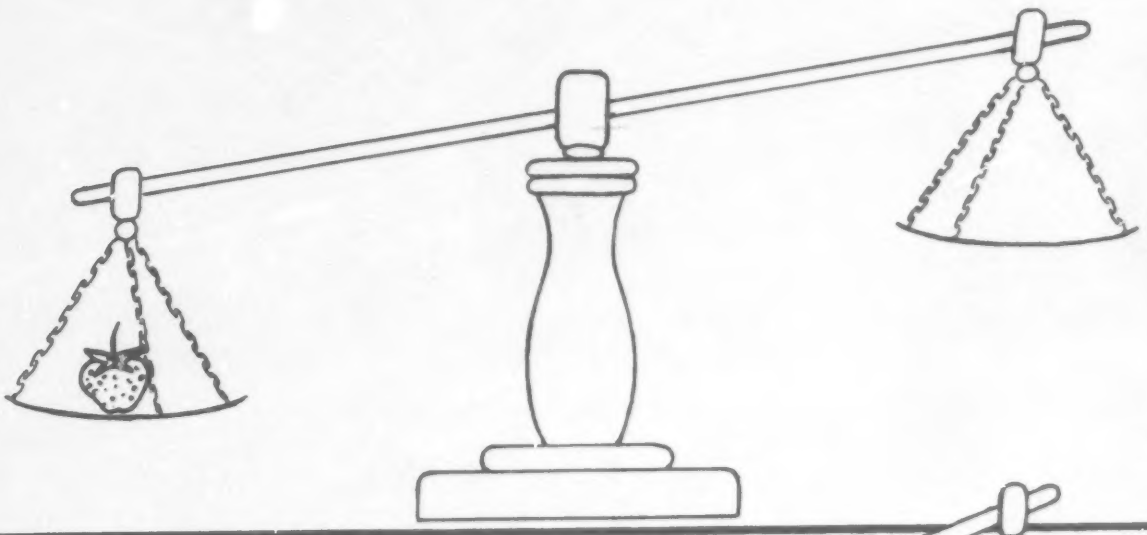


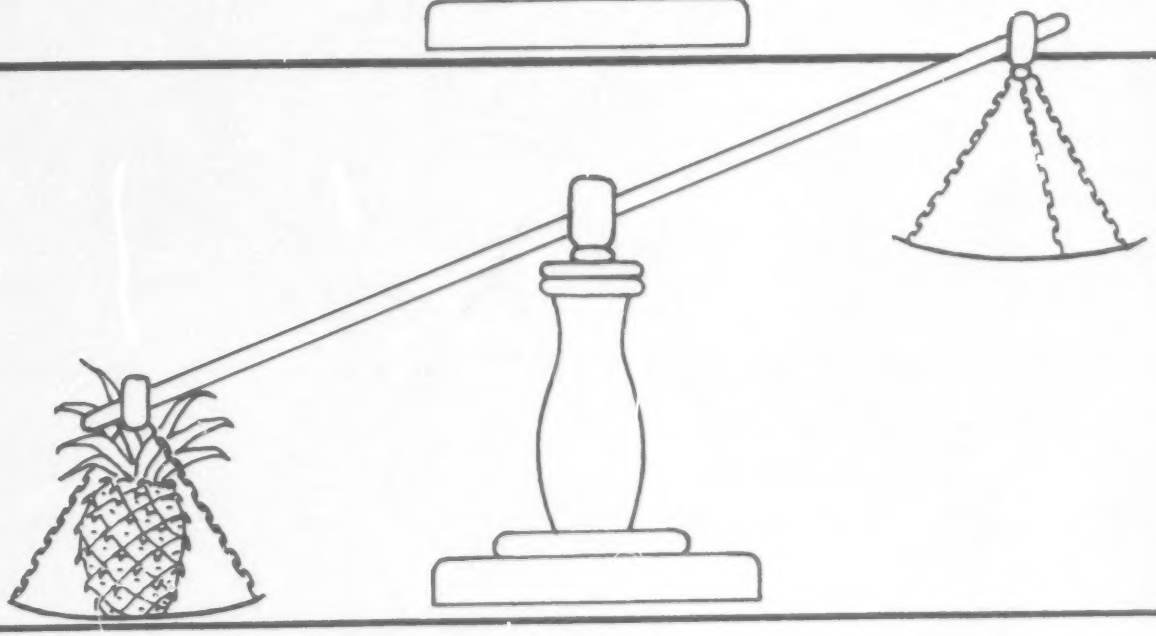
P.O. 0.10.02.02

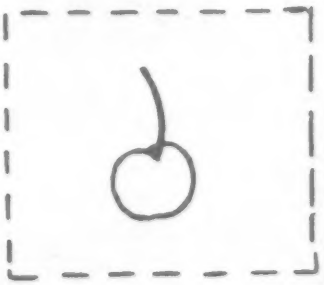
NAME: _____ CLASS: _____

Cut and paste the fruit that weighs the same as the strawberry.

Cut and paste the fruit that weighs less than the pineapple.





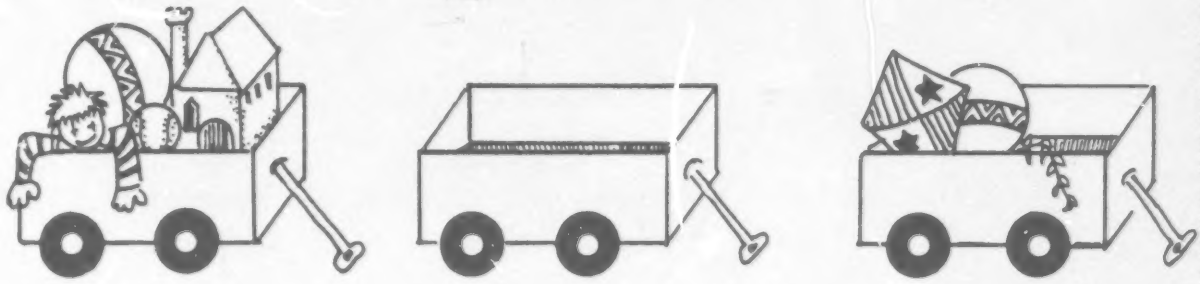


75

P.O. 0.10.03.01

NAME: _____ CLASS: ____

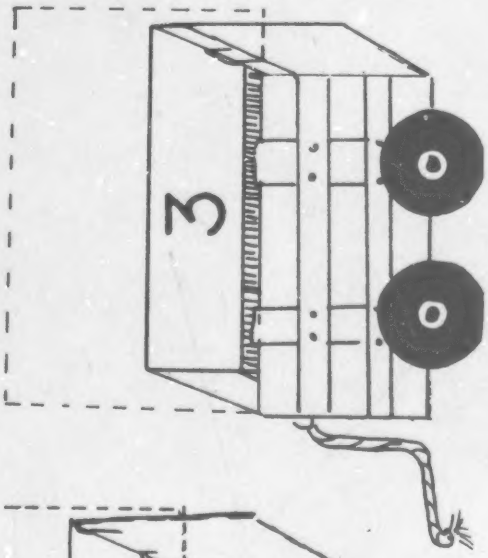
Circle the empty wagon.
Circle the full plate.
Circle the half full glass.

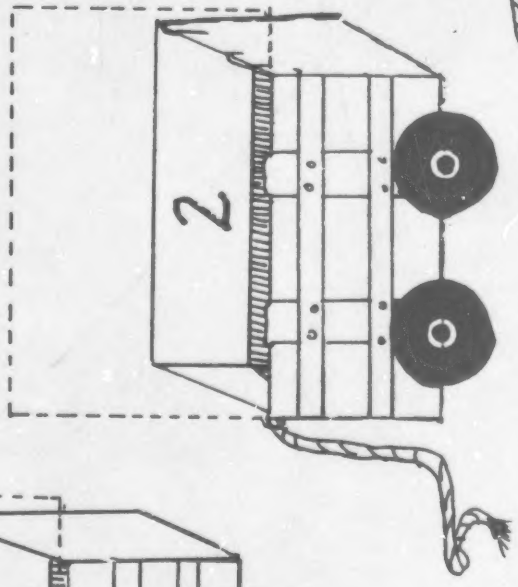


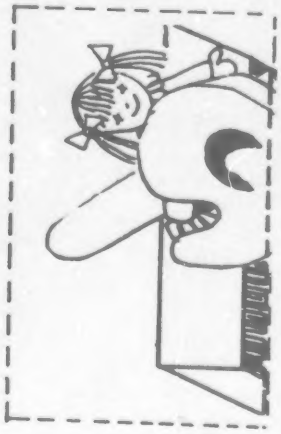
P.O._____

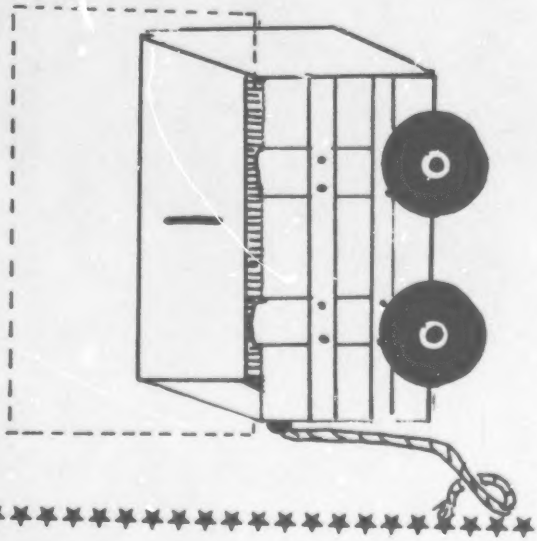
NAME:_____ CLASS:_____

Cut. Paste the toys so that wagon 1 is full, wagon 2 is half full and wagon 3 is empty.









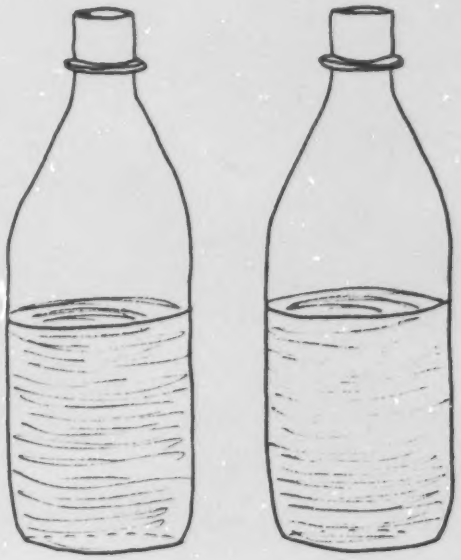
96

95

P.O. 0.10.03.01

NAME: _____ CLASS: _____

Cut and paste the bottles so that the top group of bottles shows half full or half empty and the bottom row shows full.

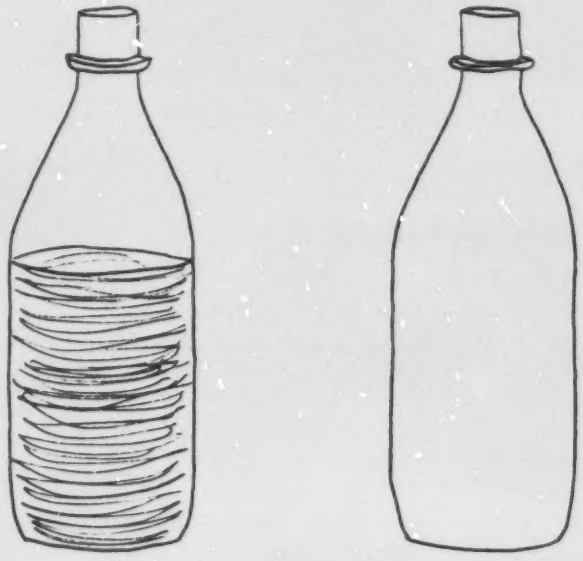


P.O. 0.10.03.02

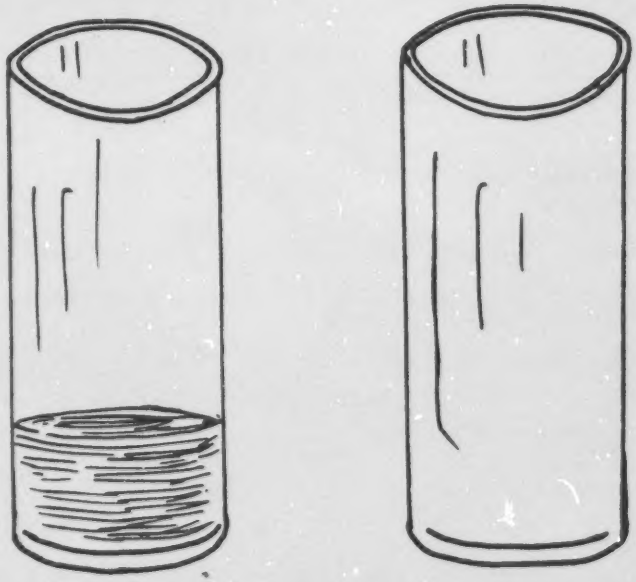
NAME:_____ CLASS:_____

1. Color the empty bottle to show an amount that is less.
2. Color the empty glass to show an amount that is more.

1



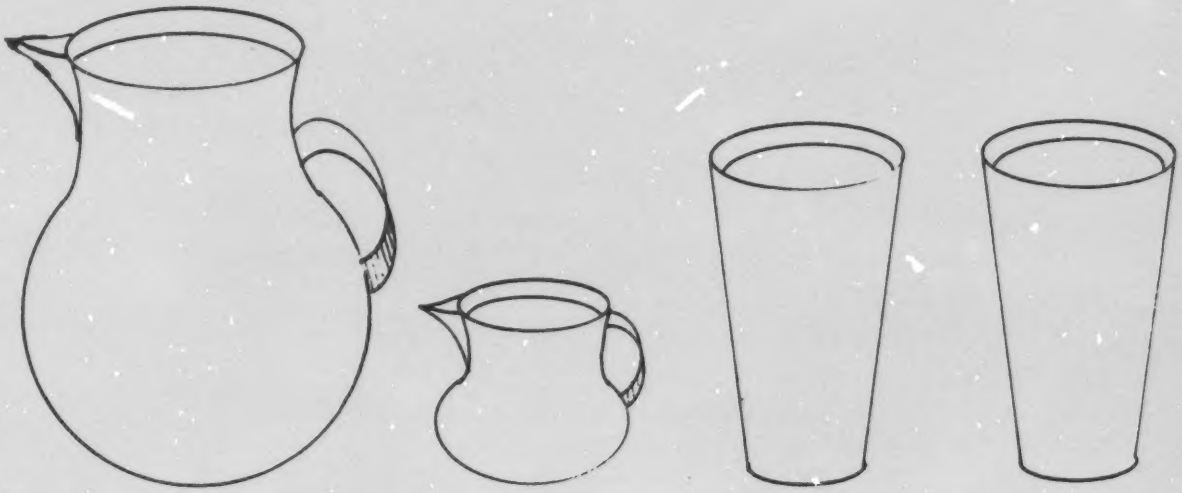
2

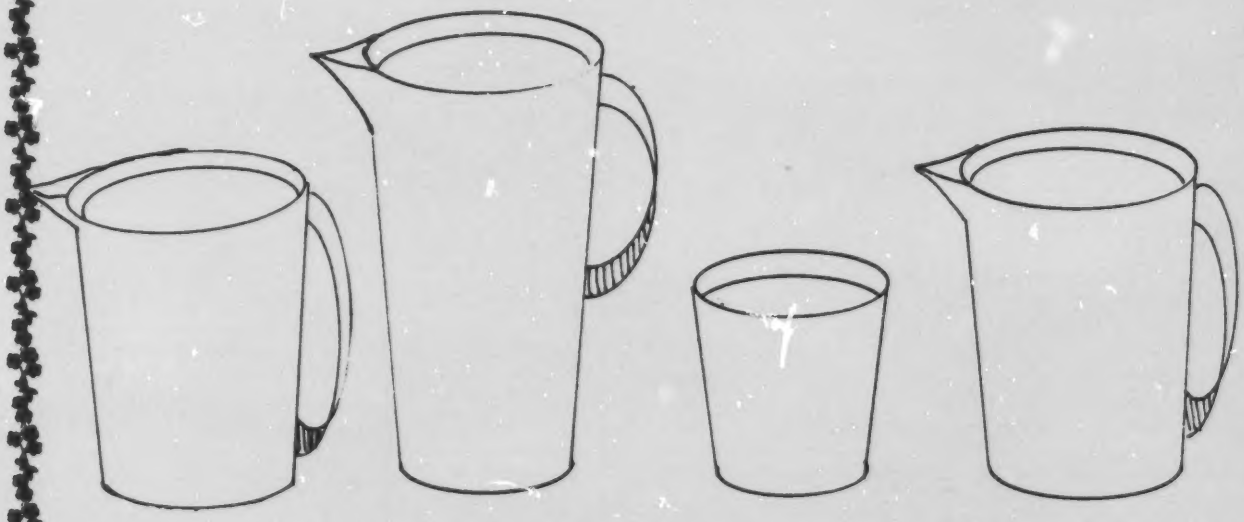


P.O. 0.10.03.02

NAME: _____ CLASS: _____

Color the containers which hold more red.
Color the containers which hold less blue.
Color the containers which hold the same amount yellow.

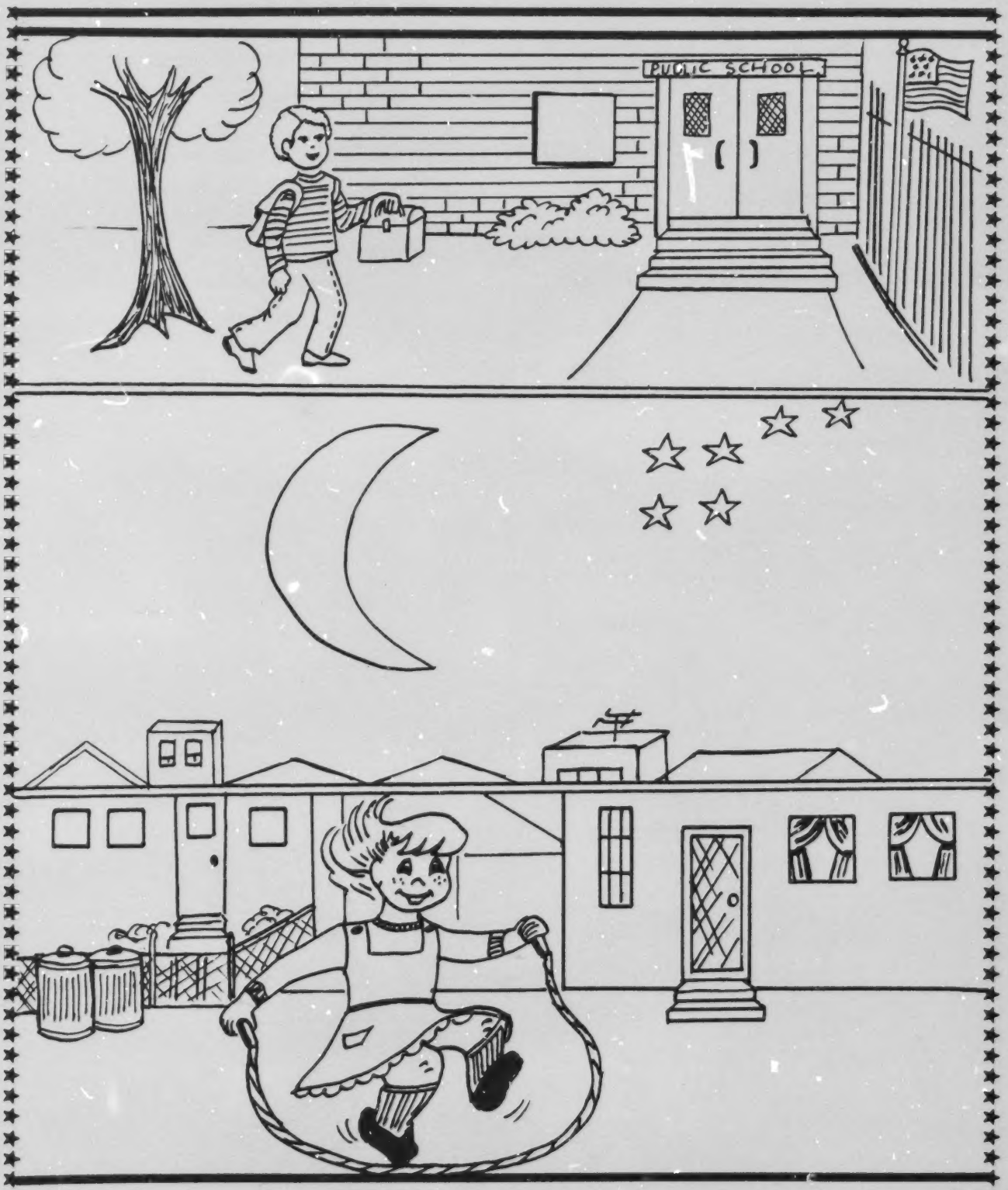




P.O. 0.10.04.01

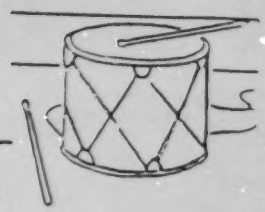
NAME: _____ CLASS: _____

Color the morning picture yellow.
Color the afternoon picture orange.
Color the night picture blue.

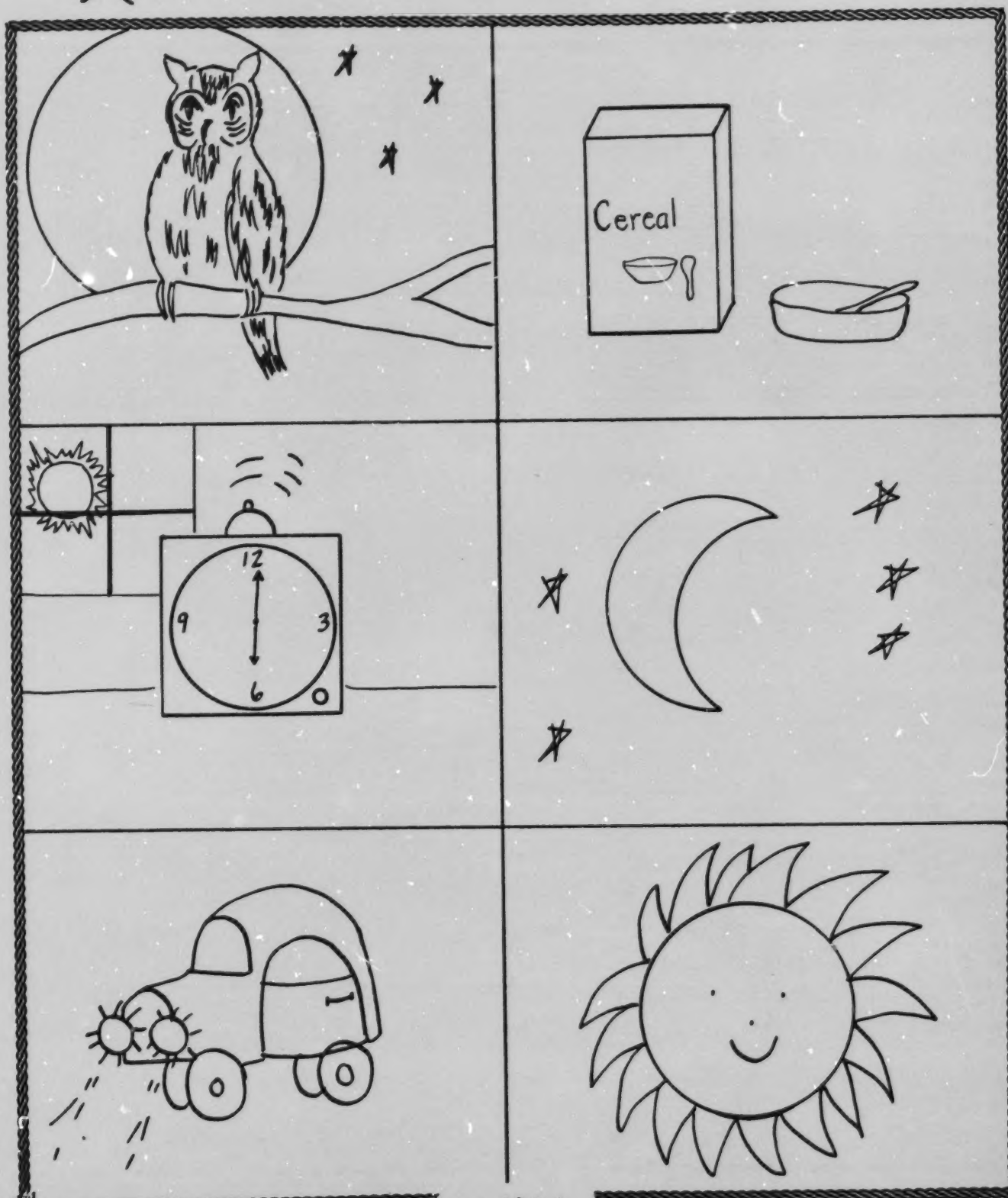


P.O. 0.10.04.01

NAME: _____ CLASS: _____



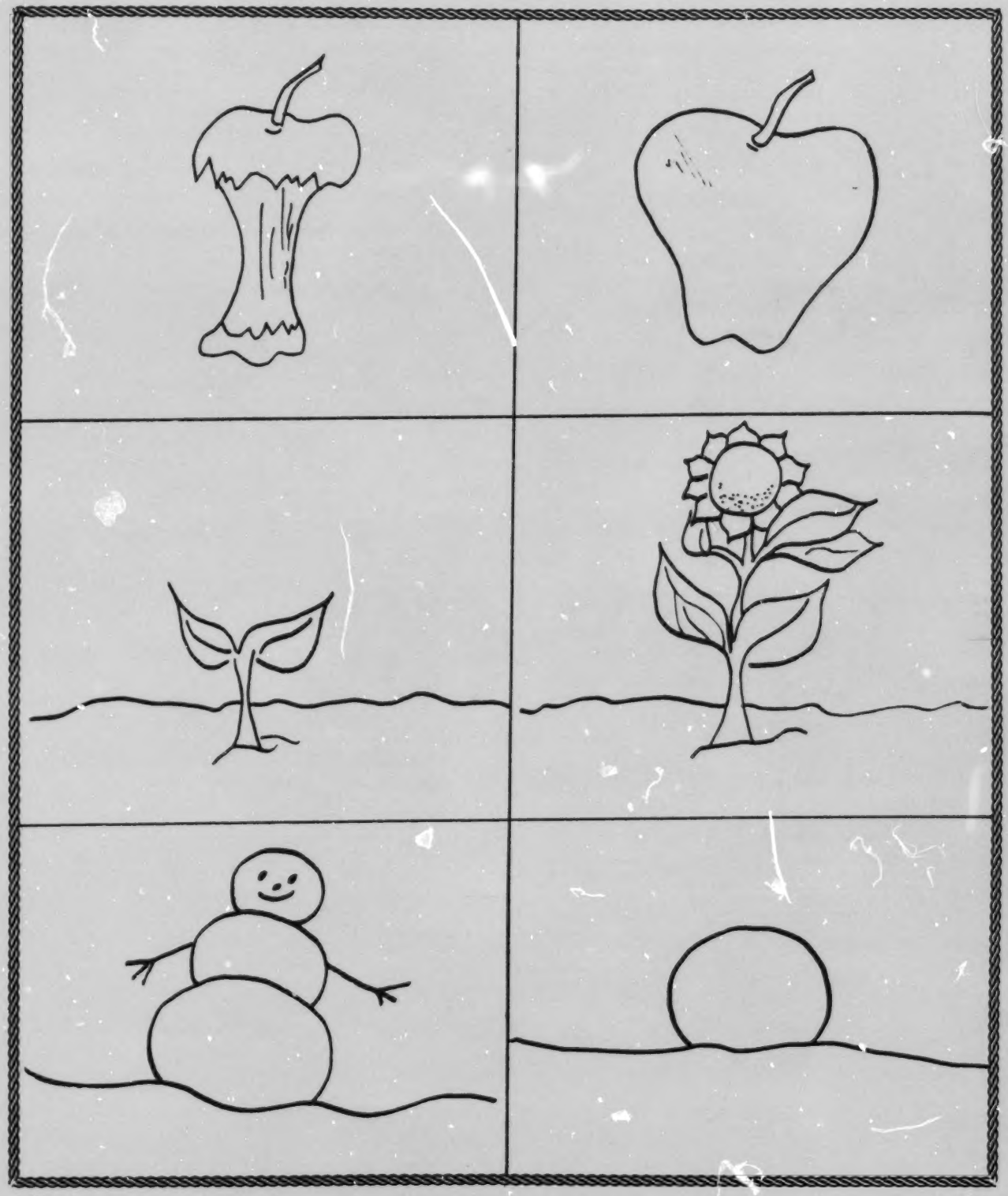
Color pictures that show what happens during the day.
X pictures that show what happens at night.



P.O. 0.10.04.02

NAME: _____ CLASS: _____

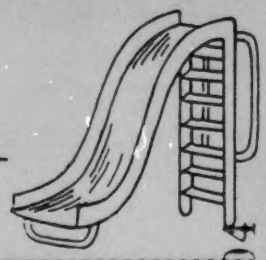
Circle the pictures that show what comes before.
X the pictures that come after.

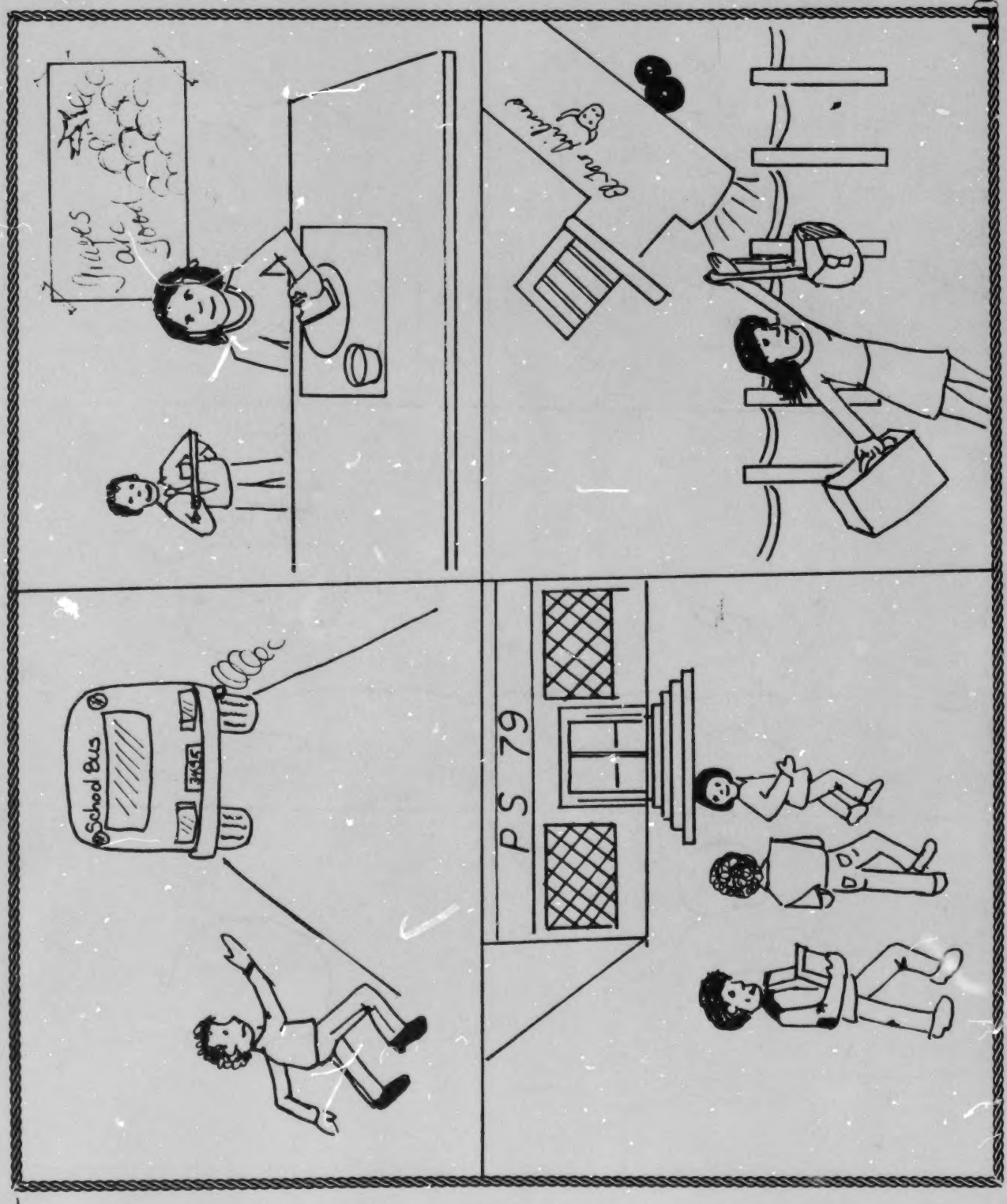


P.O. C.10.04.02

NAME: _____ CLASS: _____

X the people who are late.





P.O. 0.10.05.02

NAME: _____ CLASS: _____

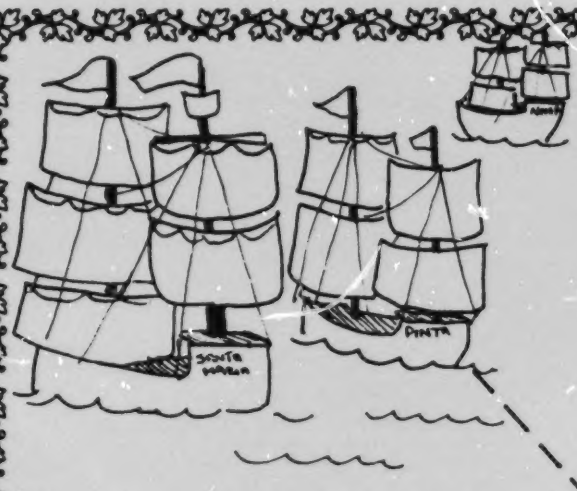
Draw pictures.

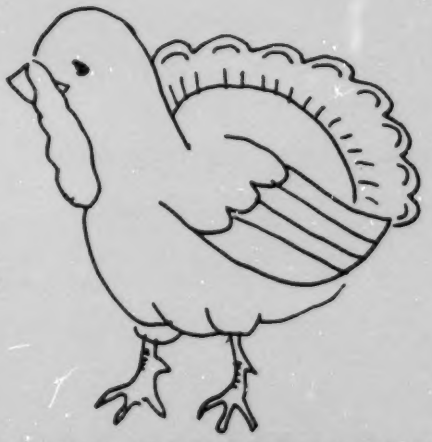
Things We Did Yesterday	Things We Will Do Today	Things We Will Do Tomorrow

P.O. 0.1.05.03

NAME: _____ CLASS: _____

Draw a line to match the holiday pictures.

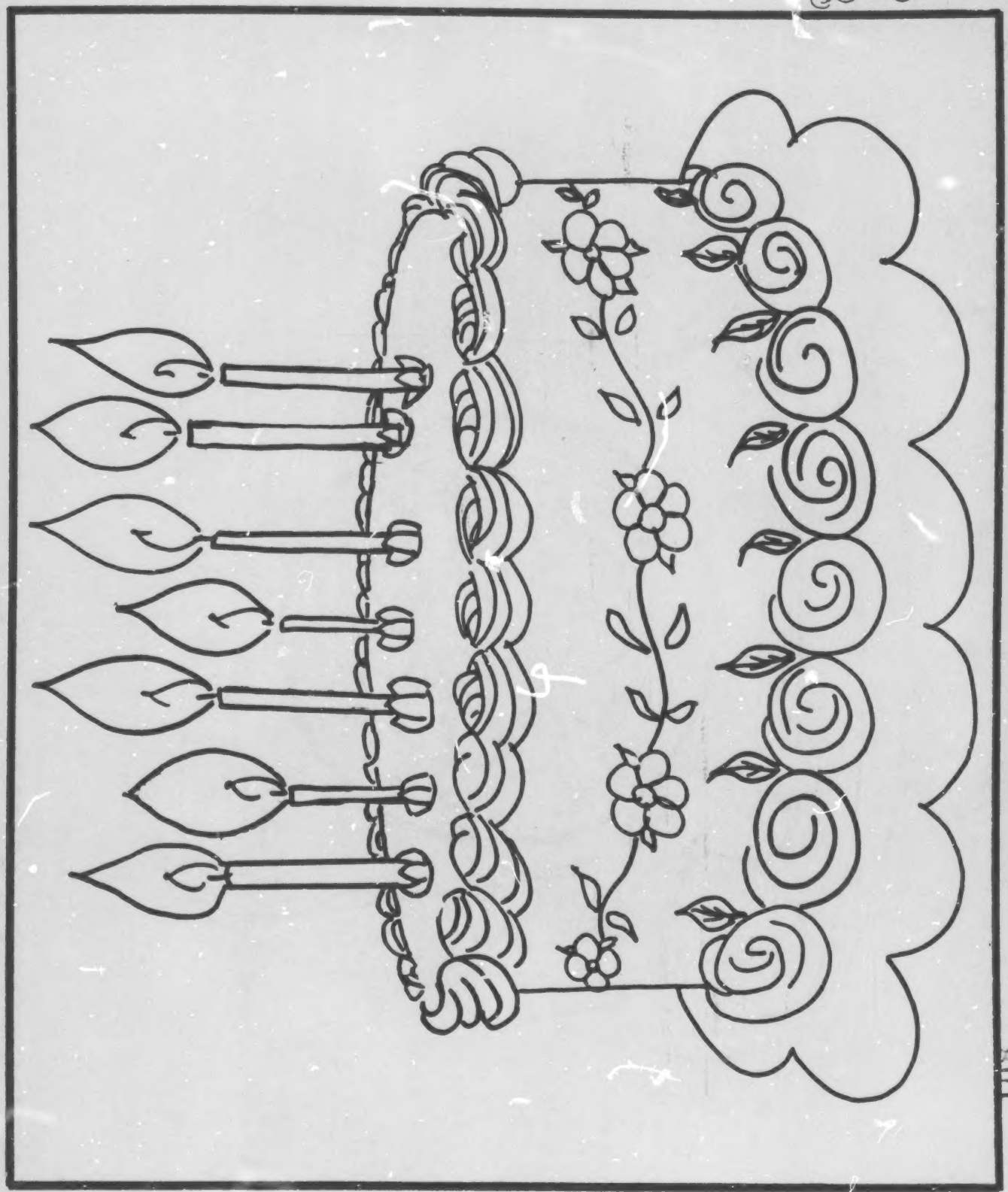




P.O. 0.01.08.01

NAME: _____ CLASS: _____

How old are you ? Color that amount of candles.

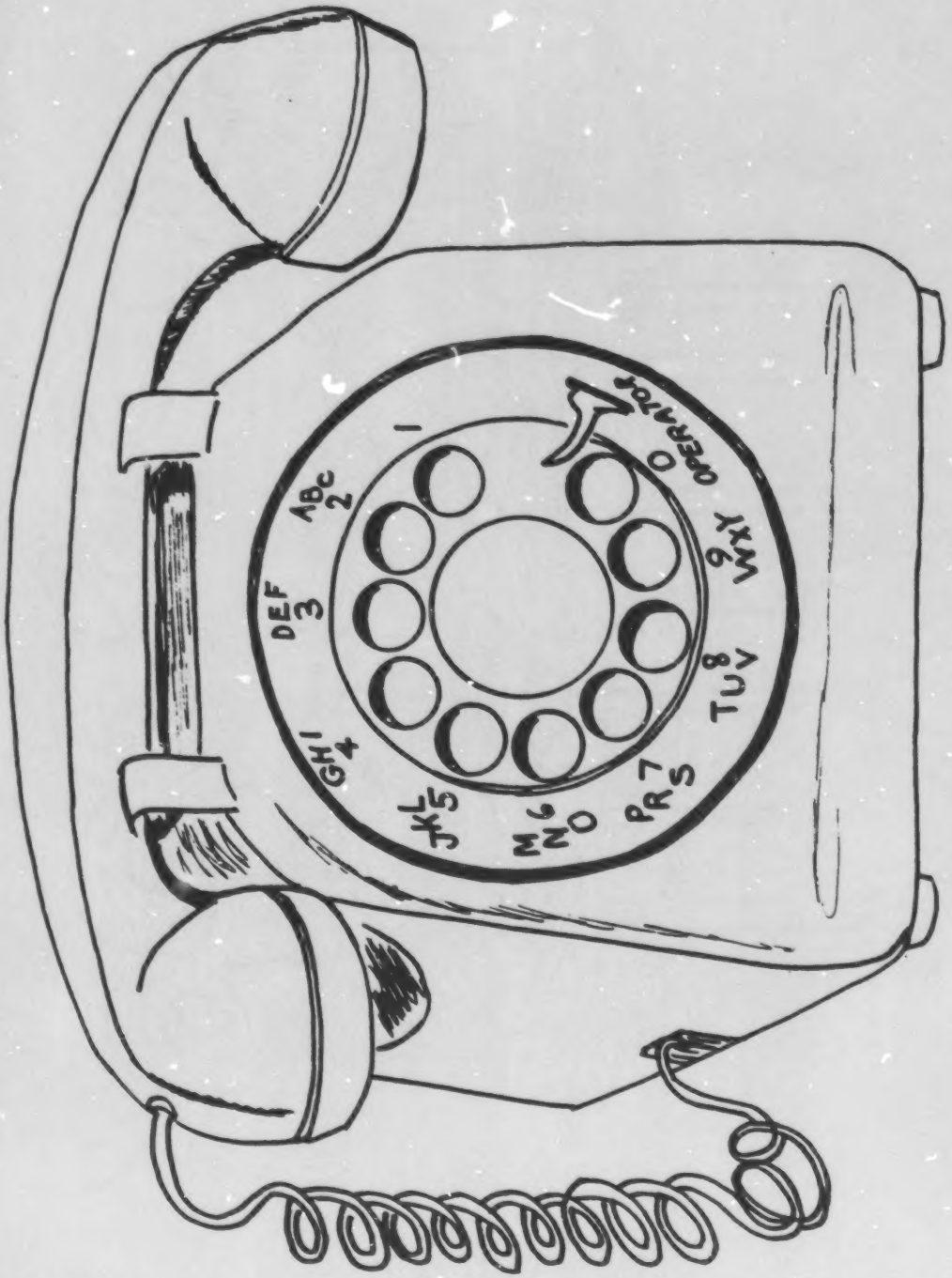


0.01.08.01

P.O._____

NAME:_____ CLASS:_____

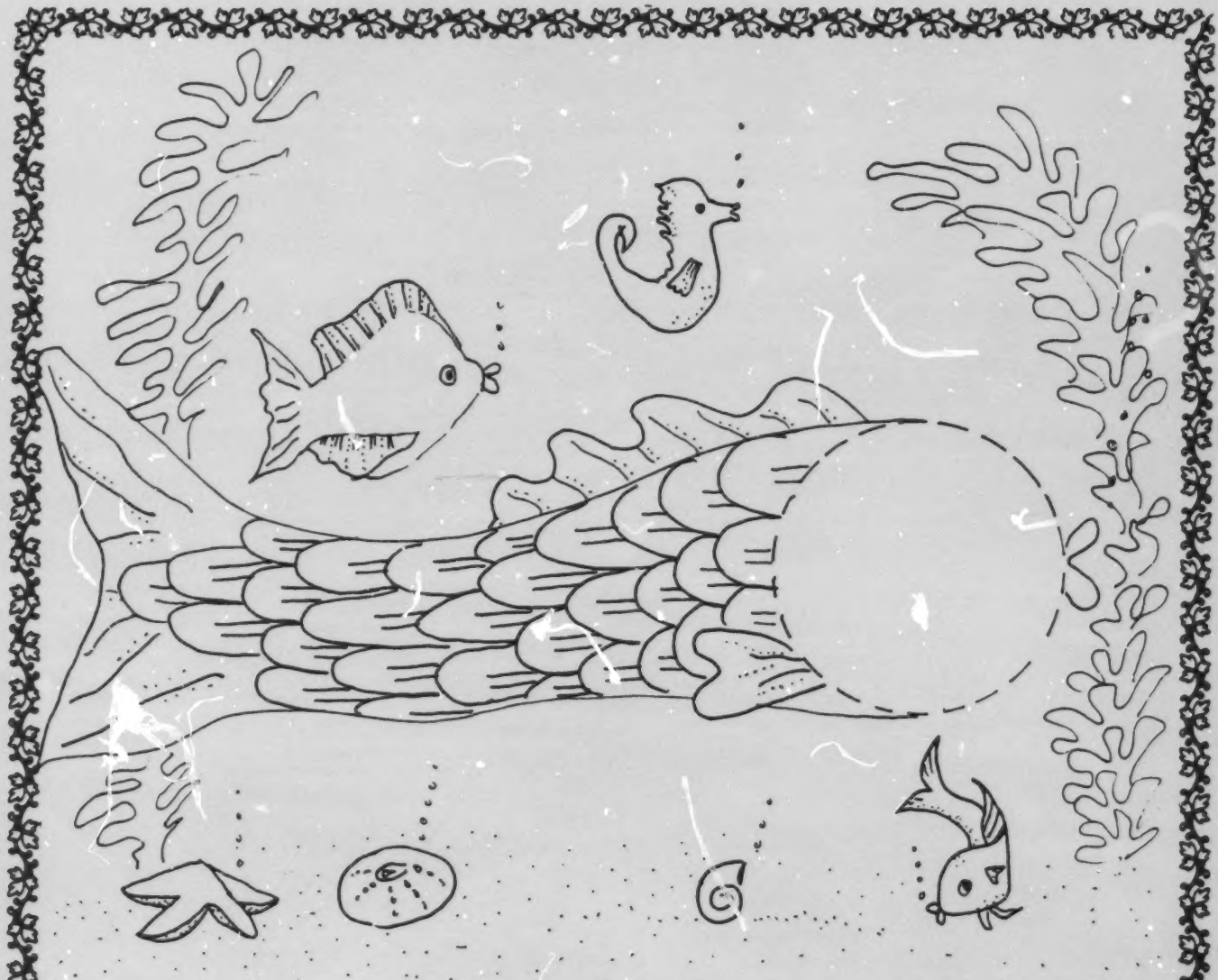
Write your telephone number.
Color the telephone.



P.O. 0.09.02.01

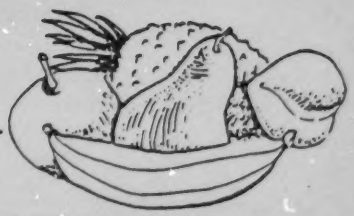
NAME: _____ CLASS: ____

Cut and paste the circle on the fish.



P.O. 0.09.02.02

NAME: _____ CLASS: _____

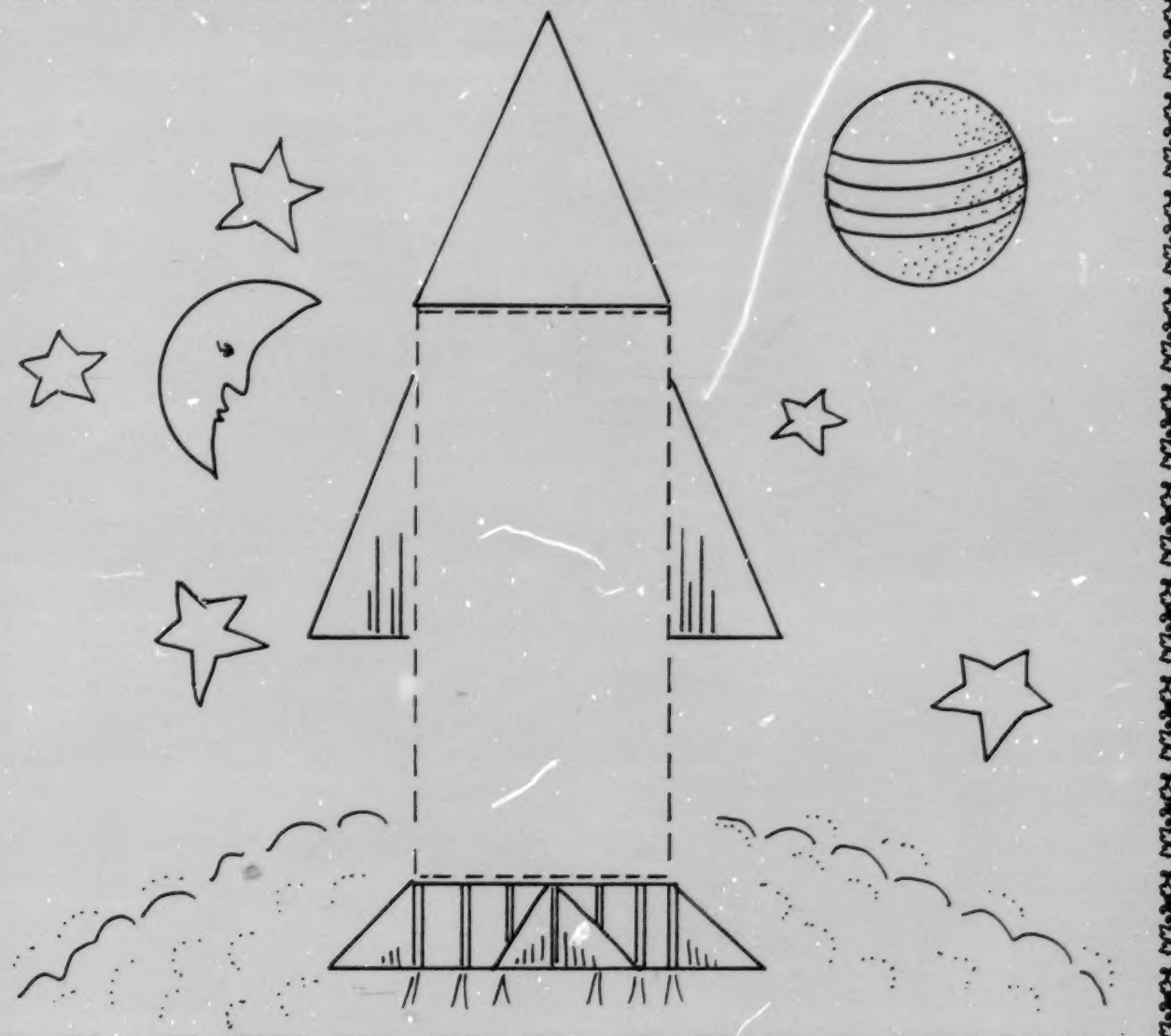


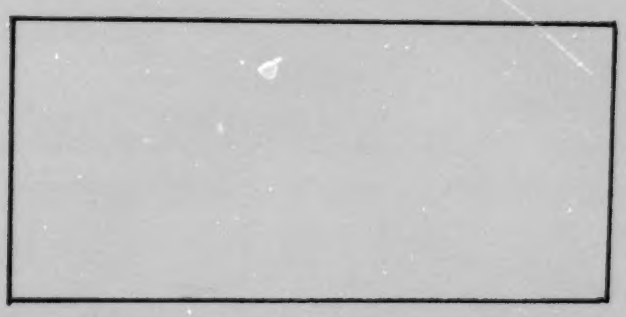
Cut and paste the square on the house.

P.O. 0.09.02.03

NAME: _____ CLASS: _____

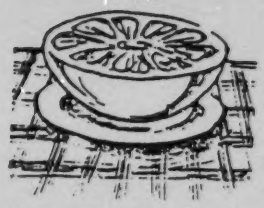
Cut and paste the rectangle on the rocketship.





P.O. 0.09.02.04

NAME:_____ CLASS:_____

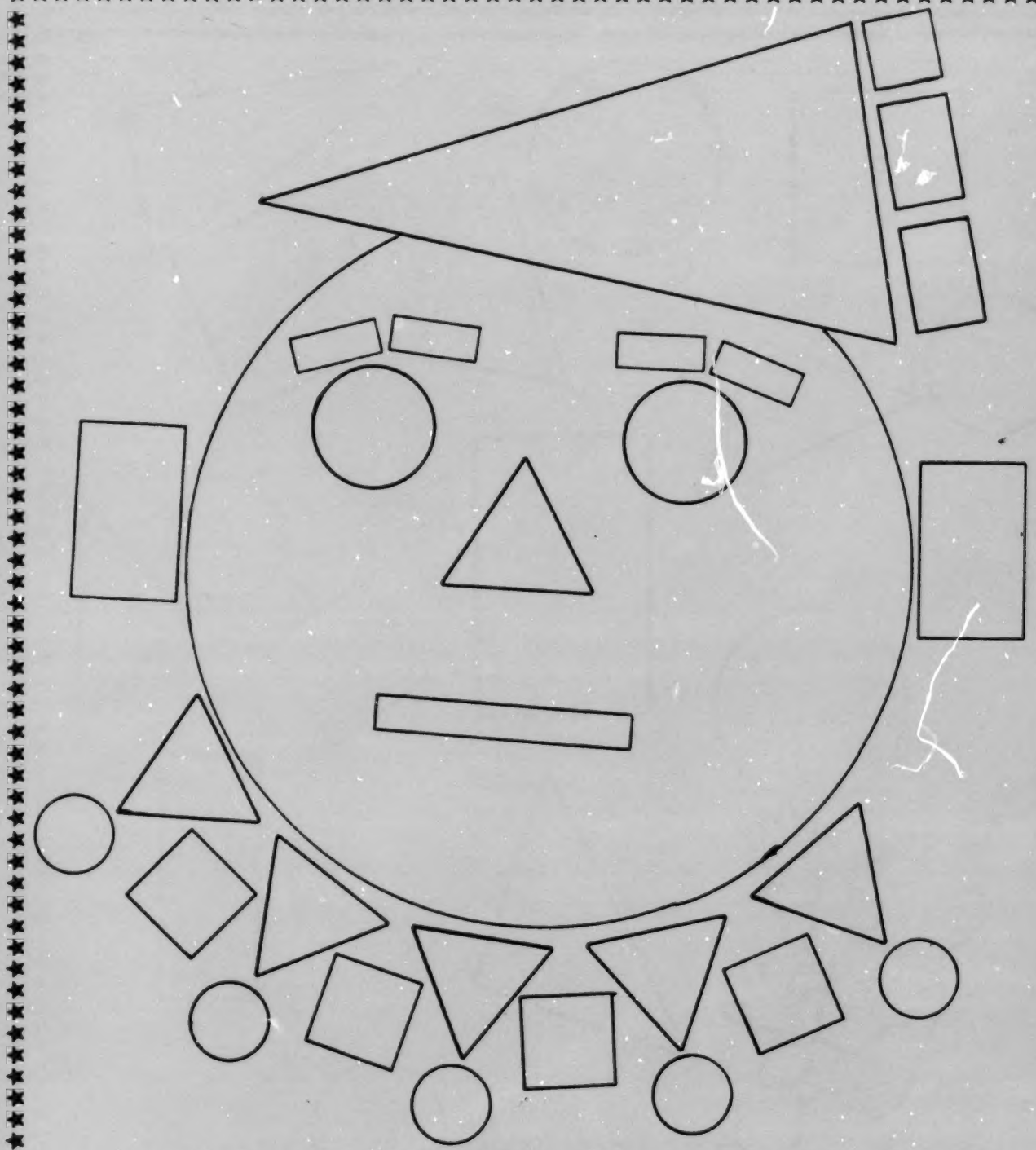


Cut and paste the triangle on the carrot.

P.O. 0.09.02.01 - .04

NAME: _____ CLASS: _____

Color ◯ red, △ blue, □ green, and ▭ yellow.

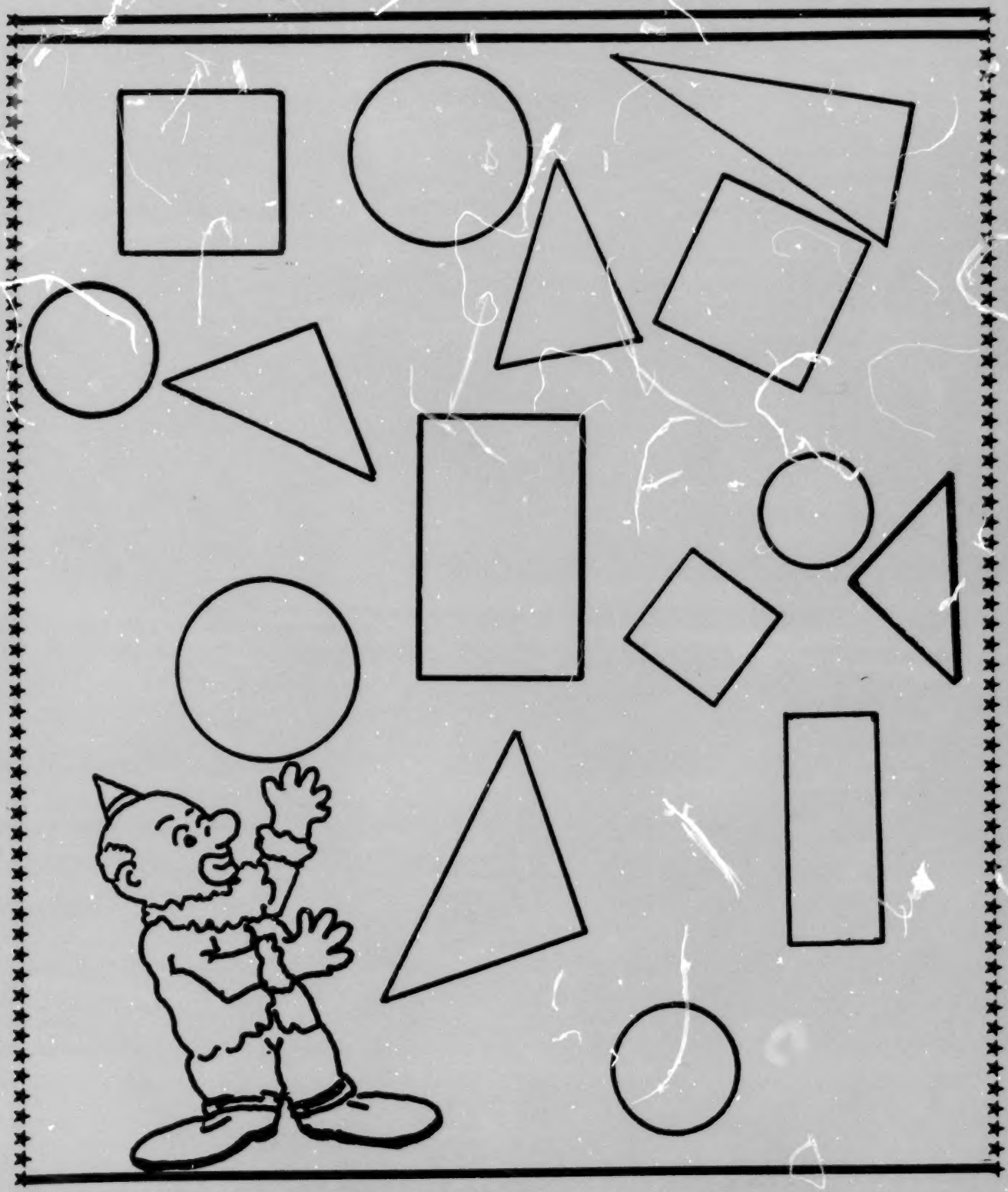


P.O. 0.09.02.01 - .04

NAME: _____ CLASS: ____

Color ○ blue □ red

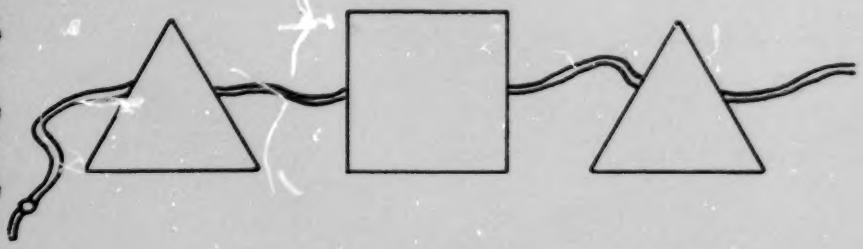
▭ green △ yellow

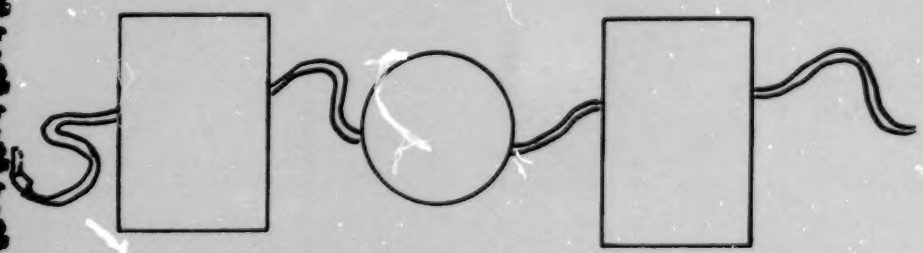


P.O. 0.09.02.05

NAME: _____ CLASS: _____

Draw the next shape to continue the pattern.

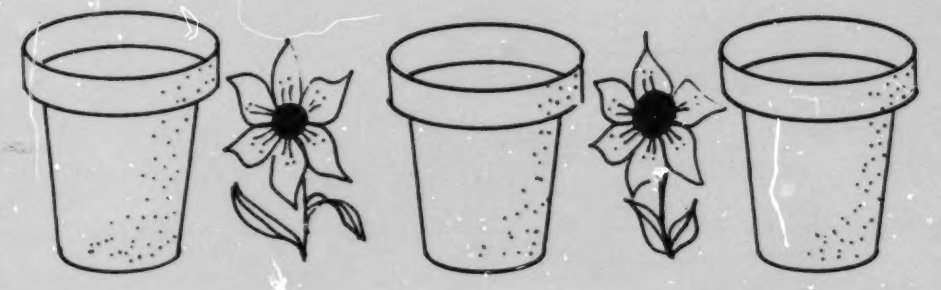


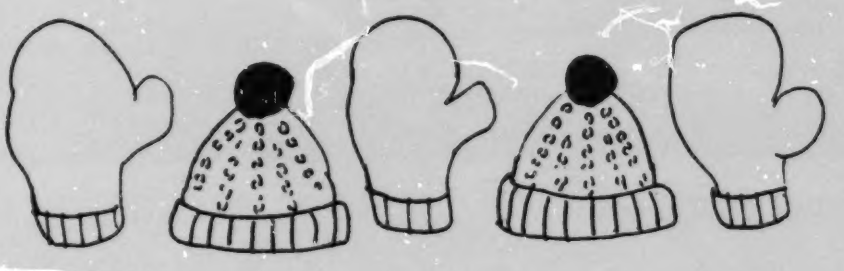


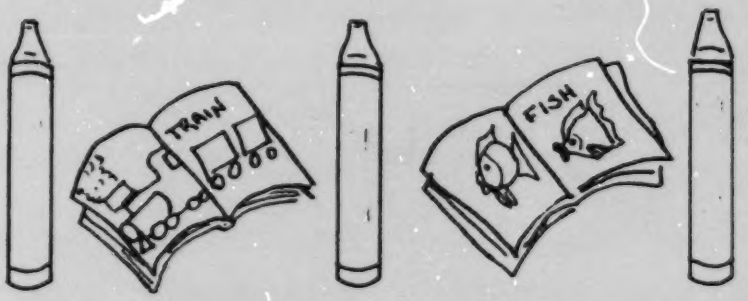
P.O. 0.09.02.05

NAME: _____ CLASS: _____

Circle the object that comes next in the pattern.

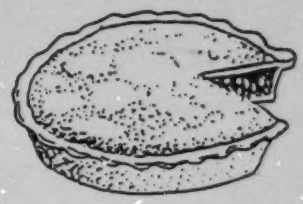




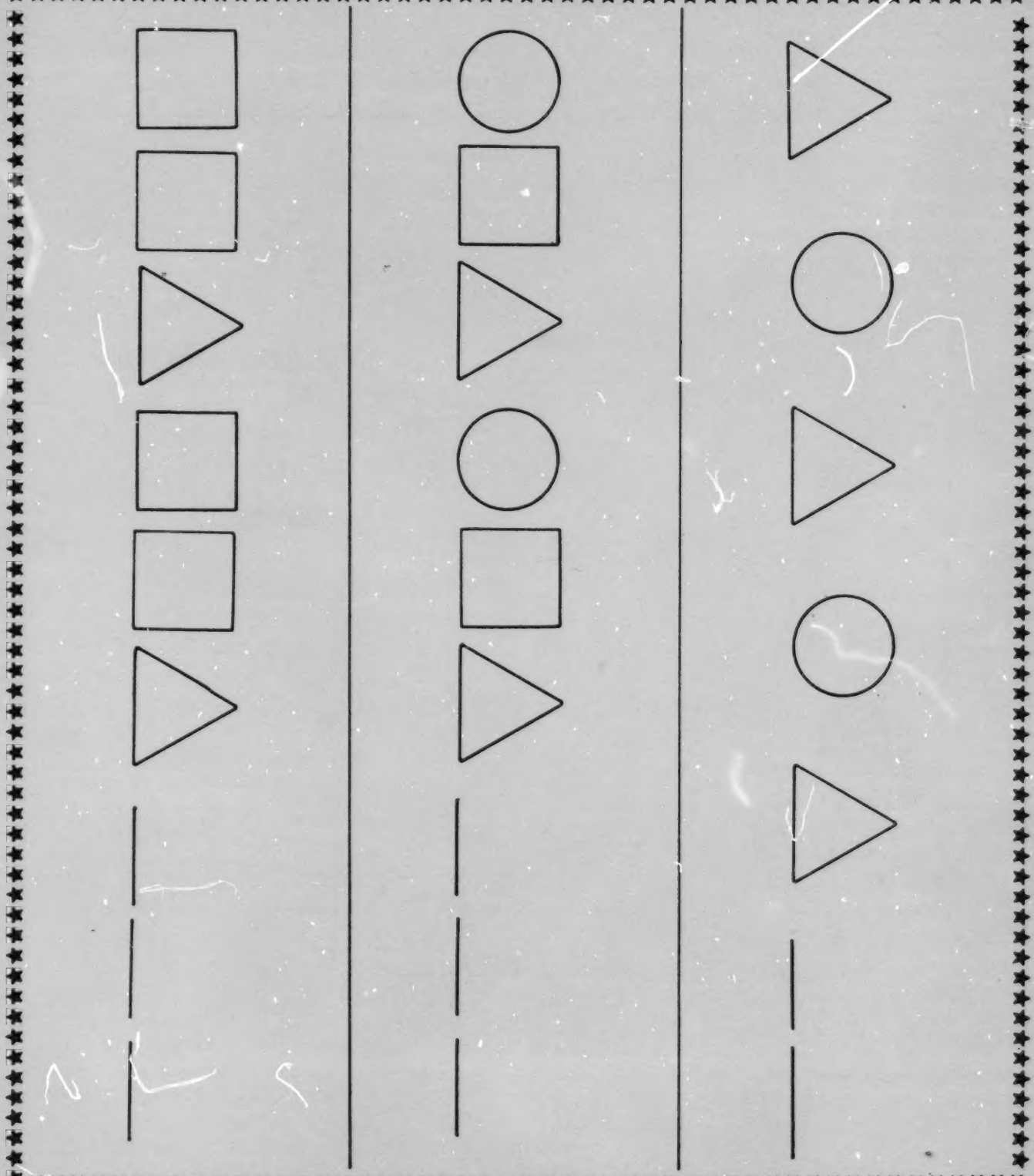


P.O. 0.09.02.05

NAME: _____ CLASS: _____



Continue the pattern.



0.01.09.01

P.O._____

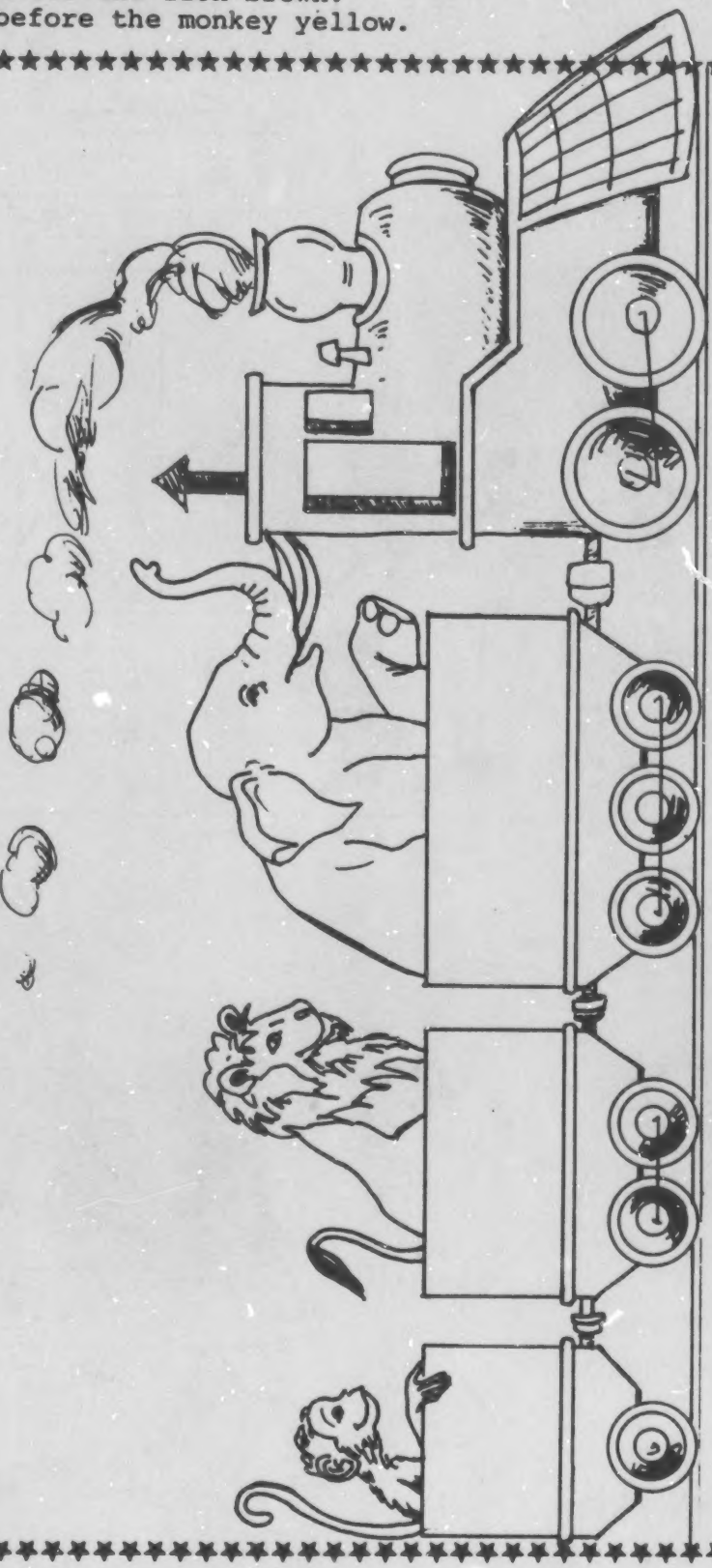
NAME:_____ CLASS:_____

Color the painter who is at the top of the ladder.
Color the can of paint at the bottom of the ladder.

P.O. 0.01.09.02

NAME: _____ CLASS: _____

Color the animal before the lion gray.
Color the animal after the lion brown.
Color the animal before the monkey yellow.



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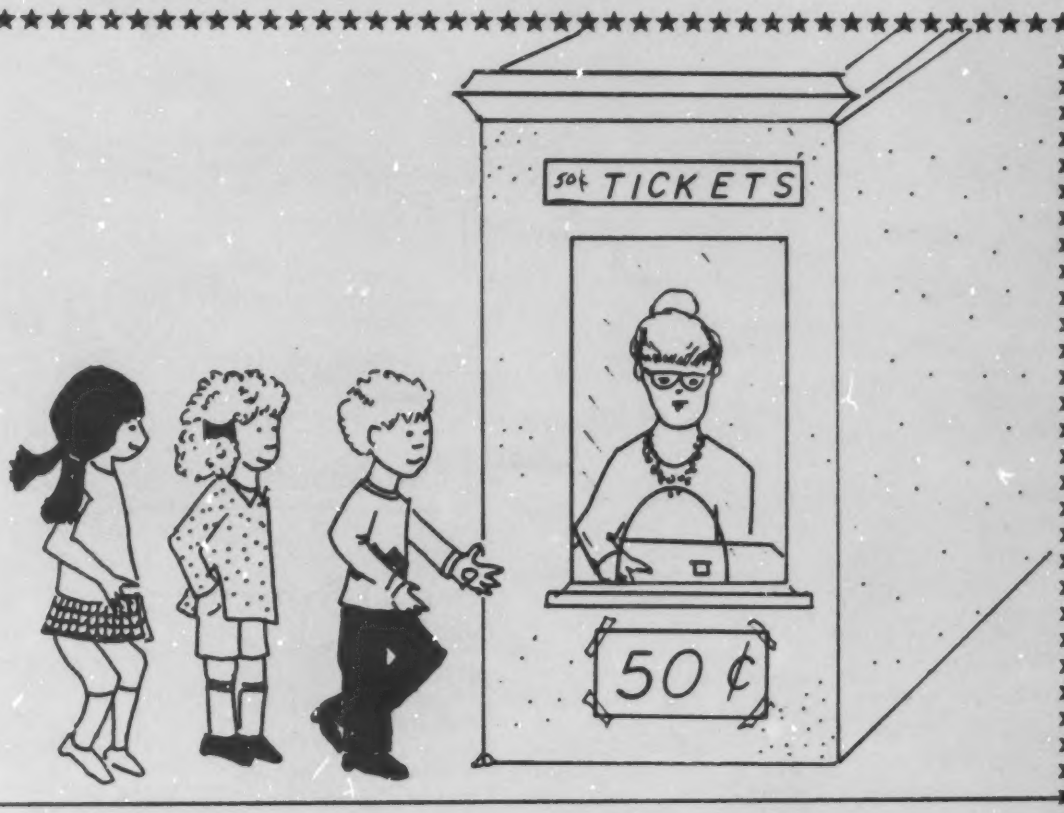
122

P.O. 0.01.09.02

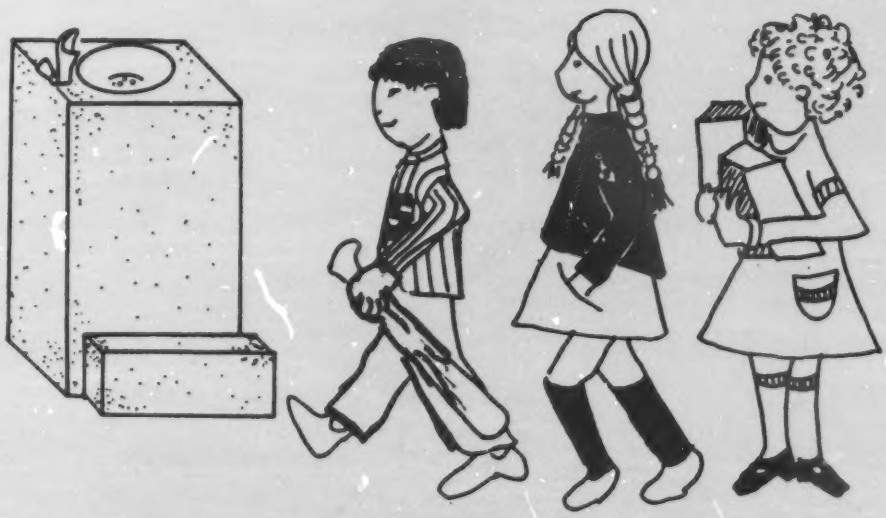
NAME: _____ CLASS: _____

1. Color the student who is on line after the boy.
2. Color the student who is on line before the girl holding packages.

1.



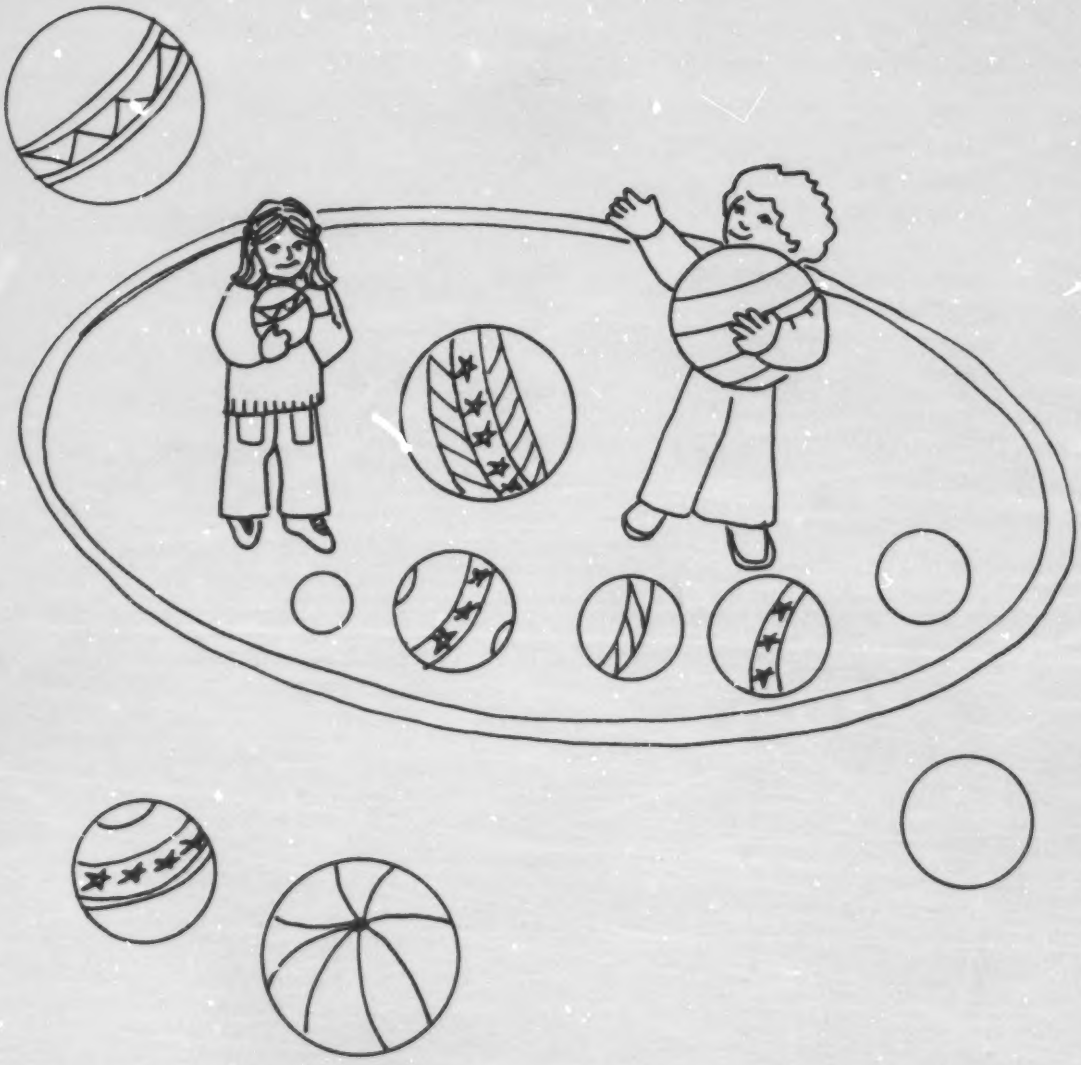
2.



P.O. 0.01.09.03

NAME:_____ CLASS:_____

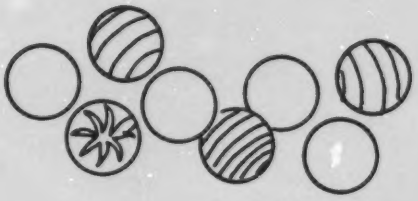
Color the balls which are inside the ring.



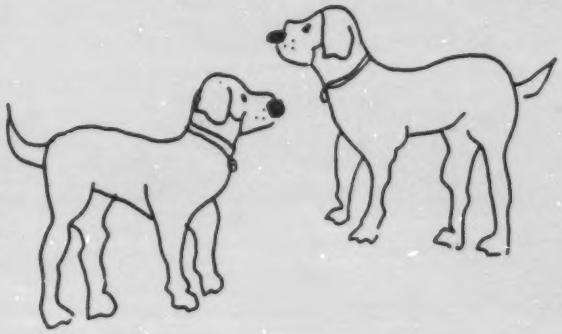
P.O. 0.01.09.03

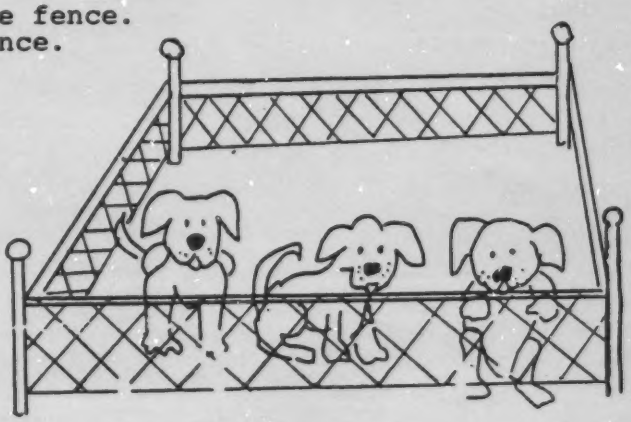
NAME: _____ CLASS: _____

Circle the marbles that are inside the jar.
X the marbles that are outside the jar.



Circle the dogs that are inside the fence.
X the dogs that are outside the fence.



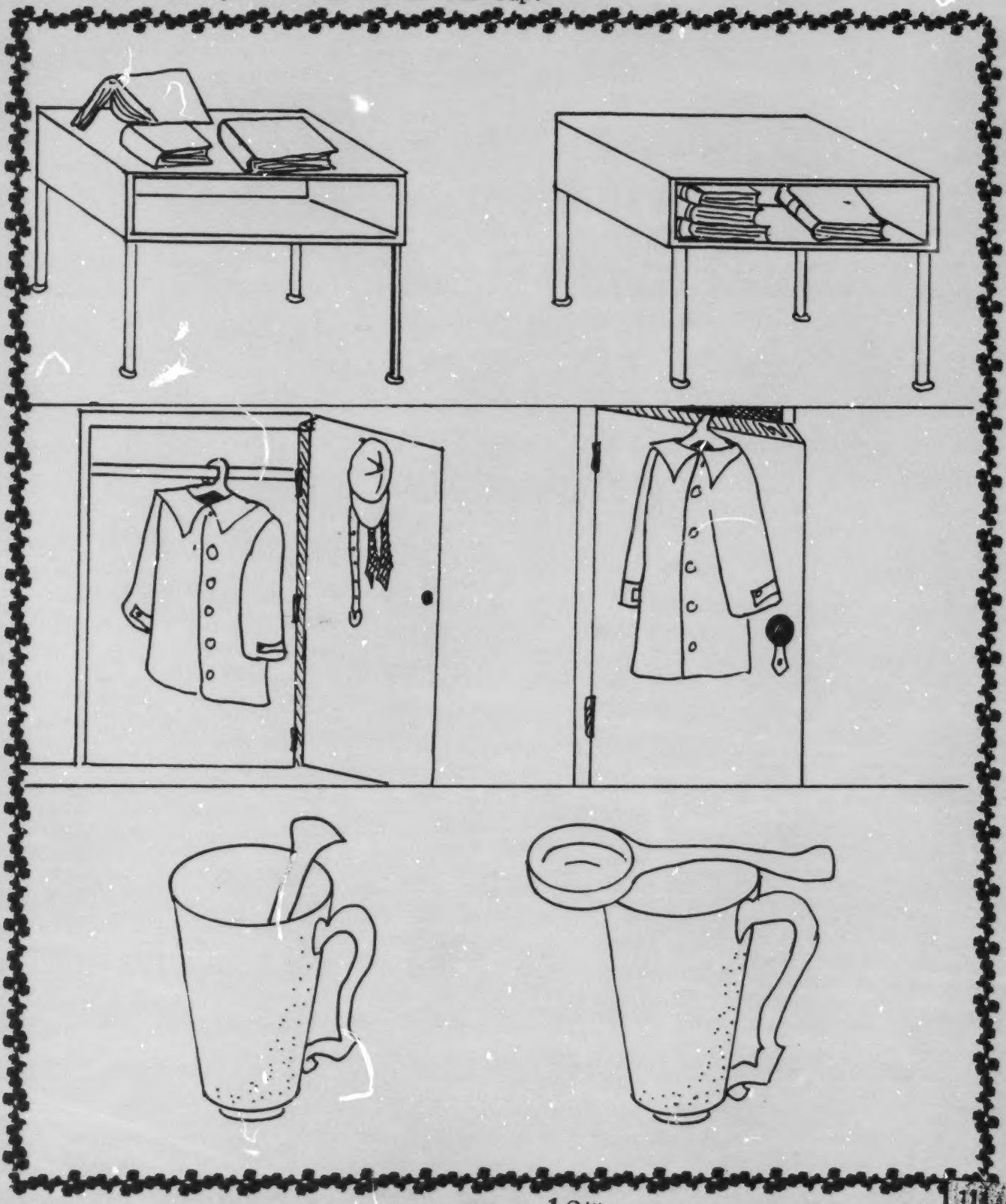


Circle the bird that is inside the cage.
X the bird that is outside the cage.

P.O. 0.01.09.04

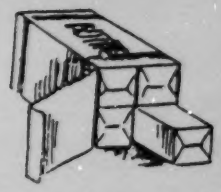
NAME:_____ CLASS:_____

Color the books which are on the desk.
Color the coat which is in the closet.
Color the spoon which is in the cup.

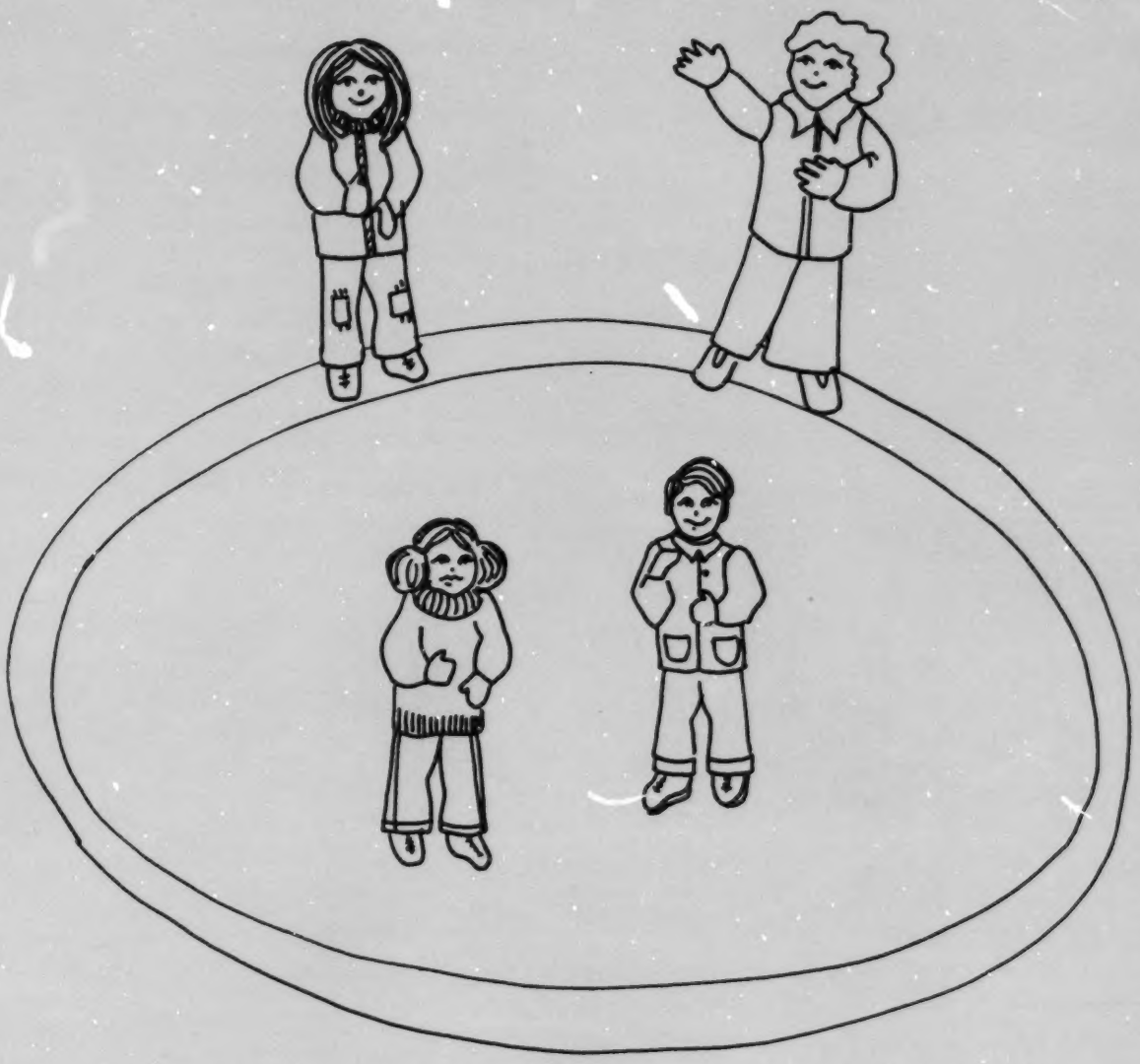


P.O. 0.01.09.04

NAME: _____ CLASS: _____



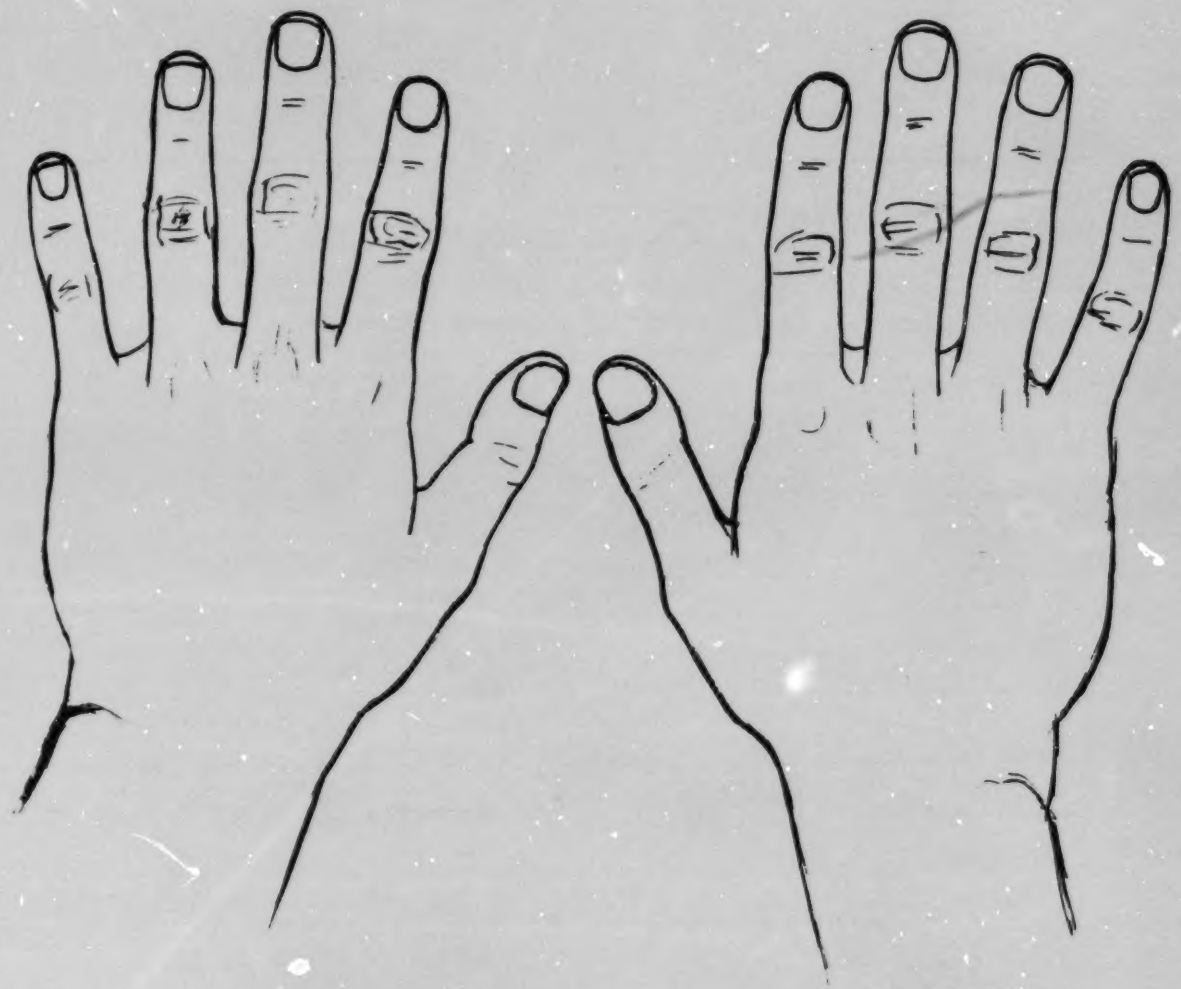
Color the students who are standing on the circle.



P.O. 0.01.09.05

NAME: _____ CLASS: _____

Draw a red ring on a finger of the right hand. Draw an X under the left hand. Draw a blue ring on a finger of the left hand. Draw an X above the right hand.

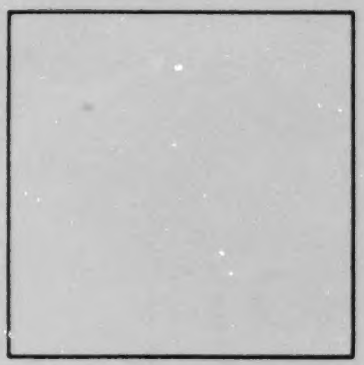


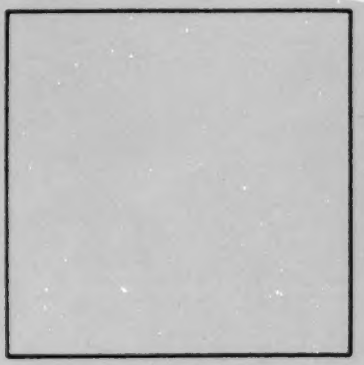
P.O. 0.01.09.06

NAME:_____ CLASS:_____

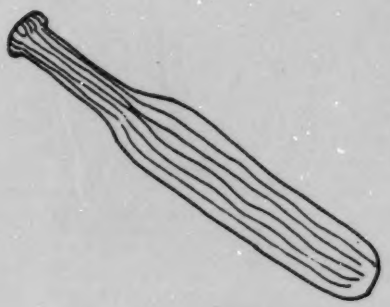
1. Draw a circle between the two boxes.
2. Draw a ball next to the bat.
3. Draw an apple between the two bananas.

1.





2.



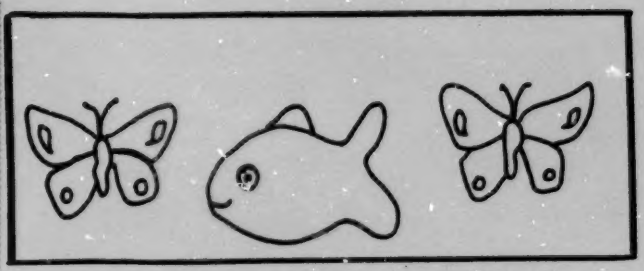
3.

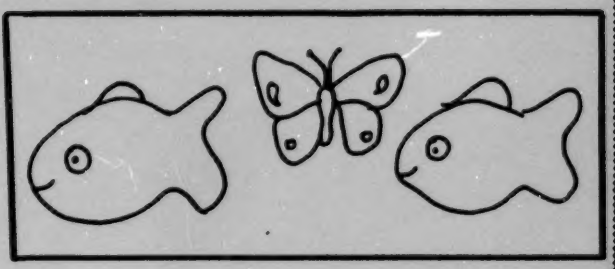
P.O. 0.01.09.06

NAME: _____ CLASS: _____

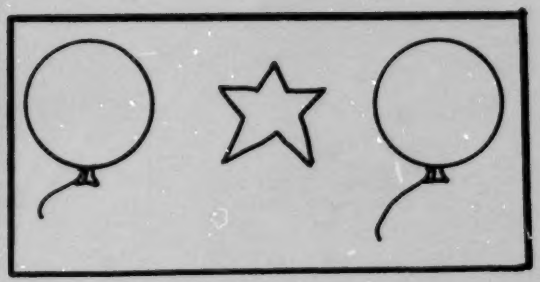
1.Color the picture showing a fish between the butterflies.
2.Color the picture showing a star between the balloons.
3.Color the bird which is next to the lion.

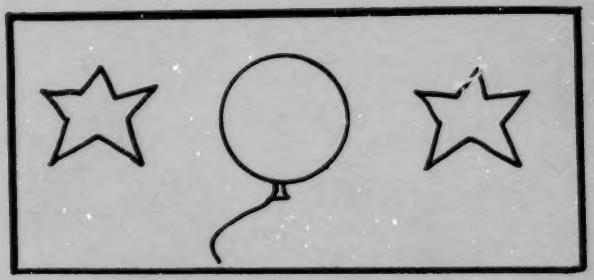
1



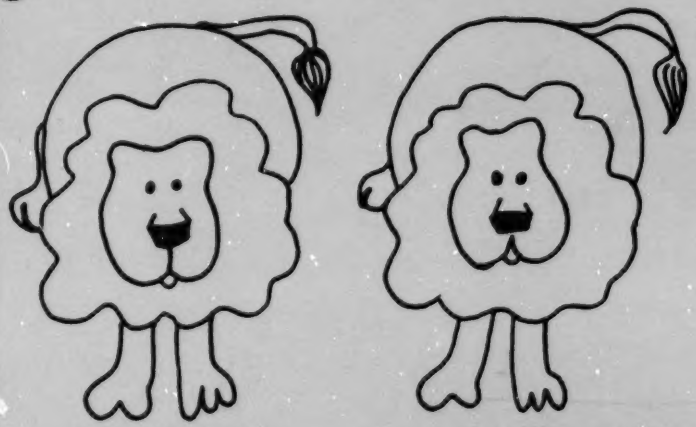


2





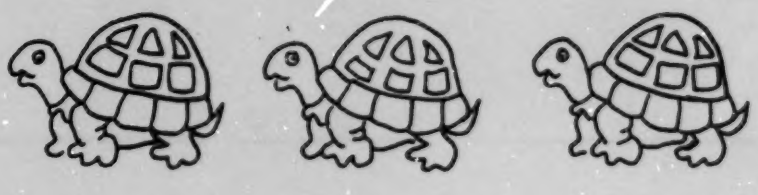
3



P.O. 0.01.09.07

NAME: _____ CLASS: _____

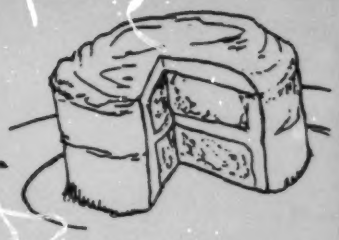
Color the first animals red, the last animals blue and the middle animals yellow.

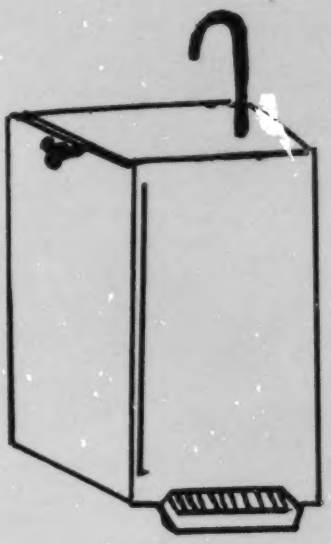


P.O. 0.01.09.07

NAME:_____ CLASS:_____

Cut and paste the youngsters next to the water fountain. Place the boy on skates first on line. Place the boy holding the balloon in the middle. Place the girl holding the bat last on line.





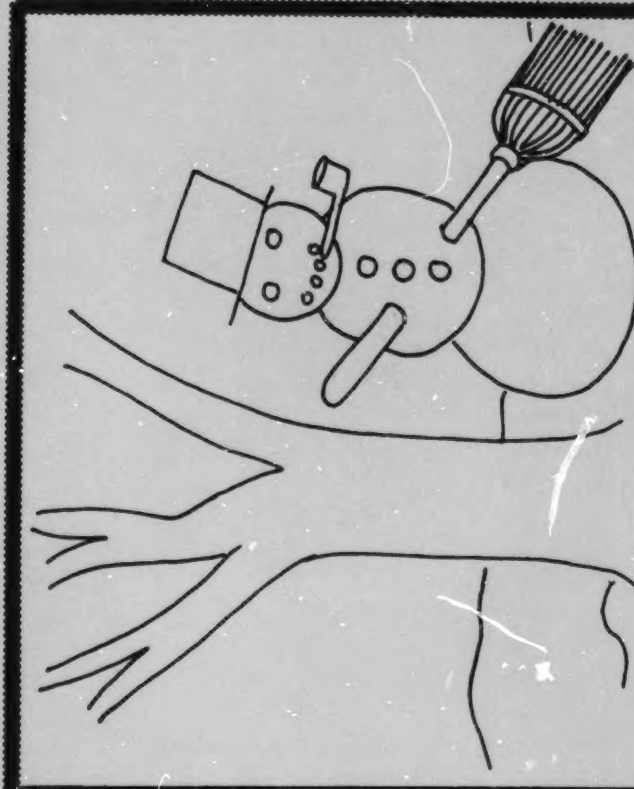
117

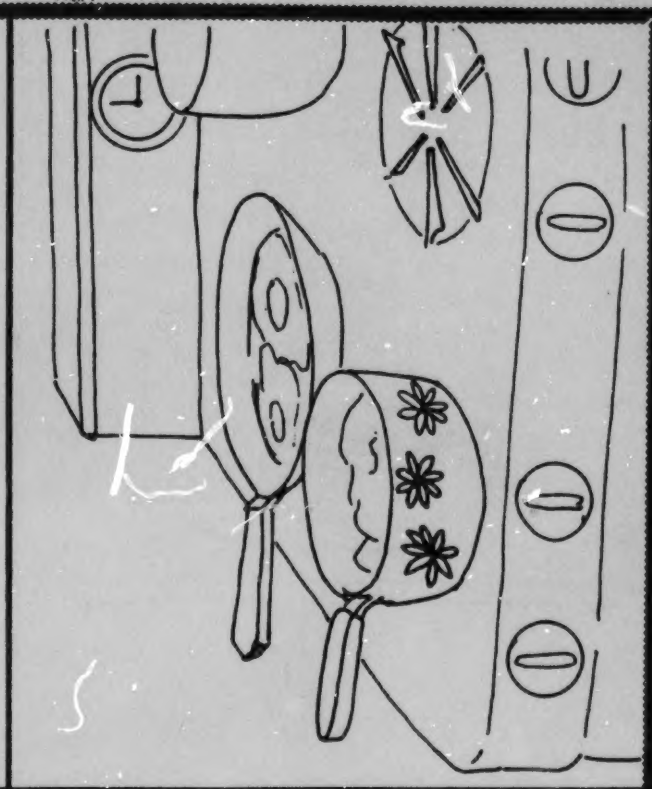
P.O. 0.10.06.01

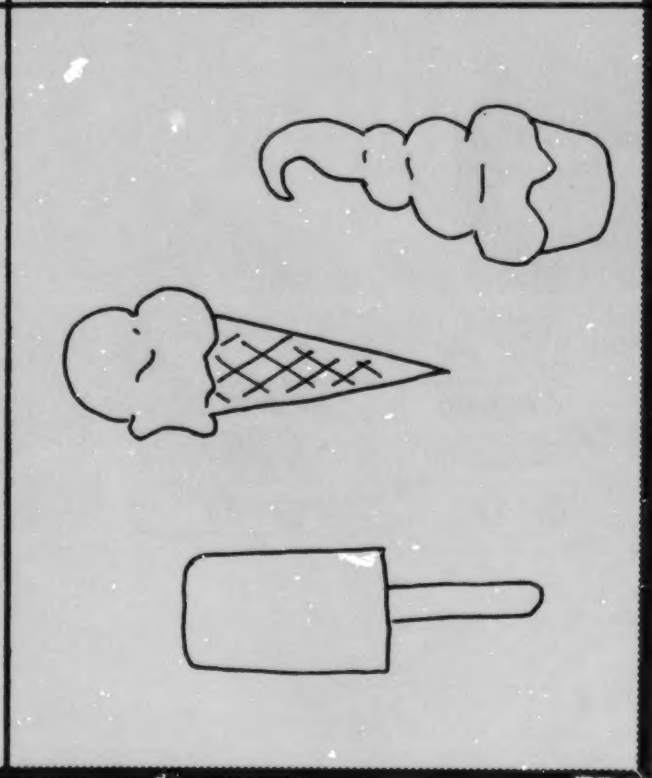
NAME: _____ CLASS: _____

Place an X over the pictures of objects that are hot.
Circle the pictures of objects that are cold.

135





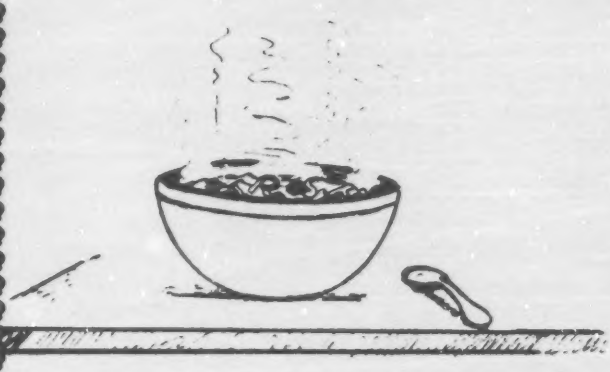


134

P.O. 0.10.06.01

NAME: _____ CLASS: _____

Place an X over the pictures of objects that are hot.
Circle the pictures of objects that are cold.

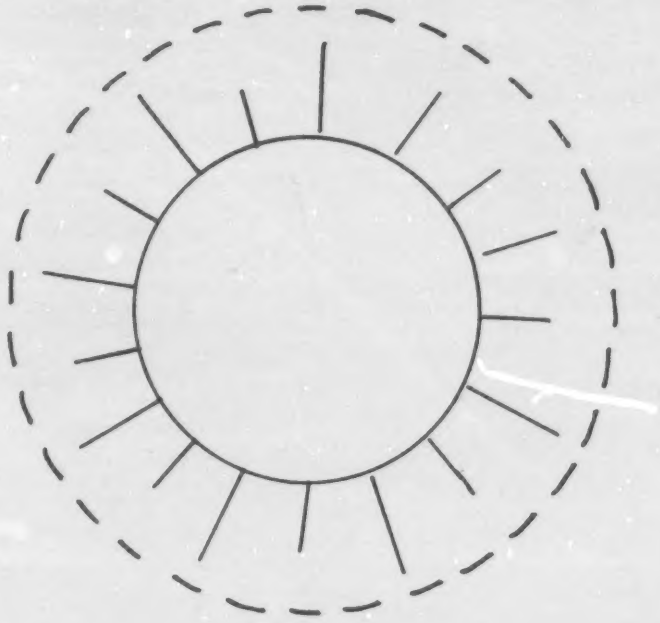


P.O. 0.10.06.02

NAME: _____ CLASS: _____

Color the sun yellow.

Cut and paste the sun and the snowperson on the next page.



P.O. 0.10.06.02

NAME: _____ CLASS: _____

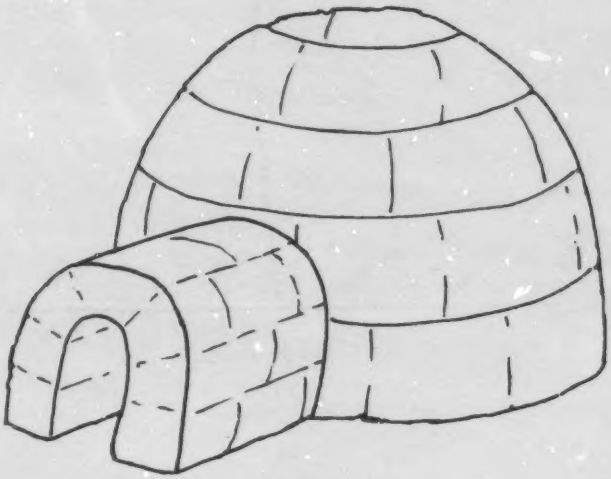
Match the pictures to the correct words and paste them on the page.

THE SUN is hotter than THE SNOWPERSON.

P.O. 0.10.06.02

NAME: _____ CLASS: ____

Color the houses.
Cut and paste them on the next page.



P.O. 0.10.06.02

NAME: _____ CLASS: _____

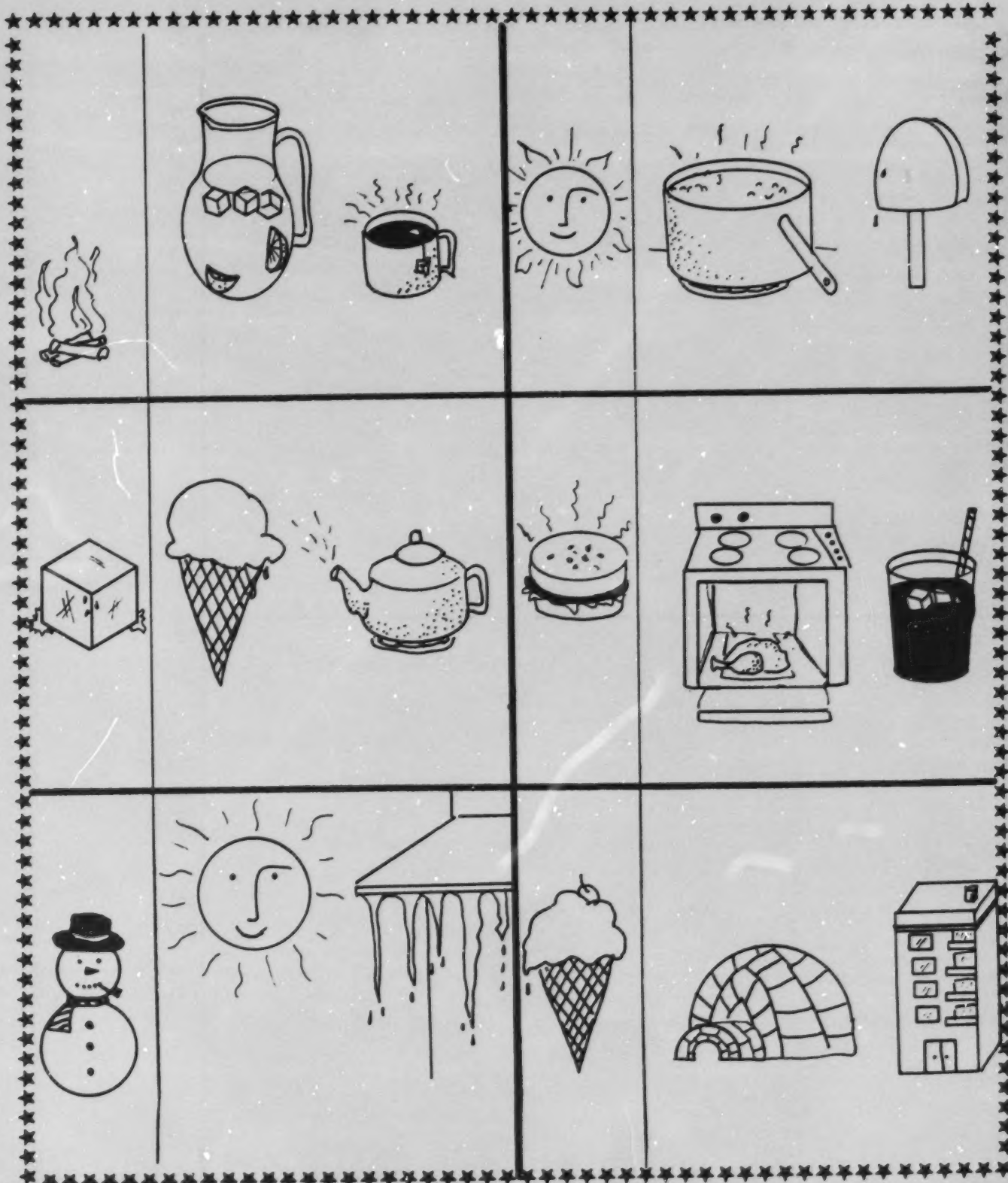
Match the houses to the correct words and paste them on the page.

THIS HOUSE is cooler than THIS HOUSE.

P.O. 0.10.06.03

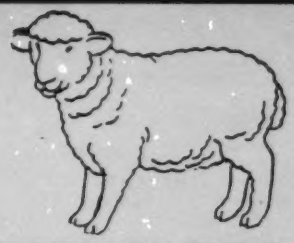
NAME: _____ CLASS: _____

Place red discs on pictures which are as hot as ...
Place blue discs on pictures which are as cold as ...



P.O. 0.10.07.01

NAME: _____ CLASS: _____



Draw windows on the largest building.

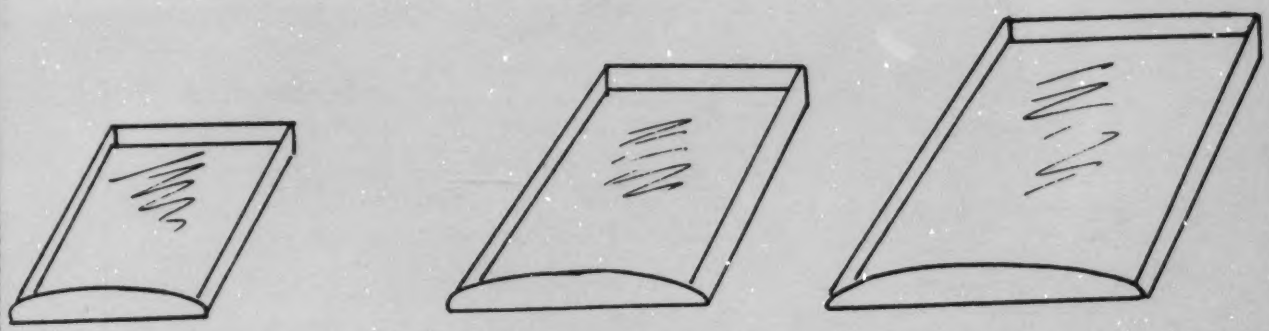
P.O. 0.10.07.01

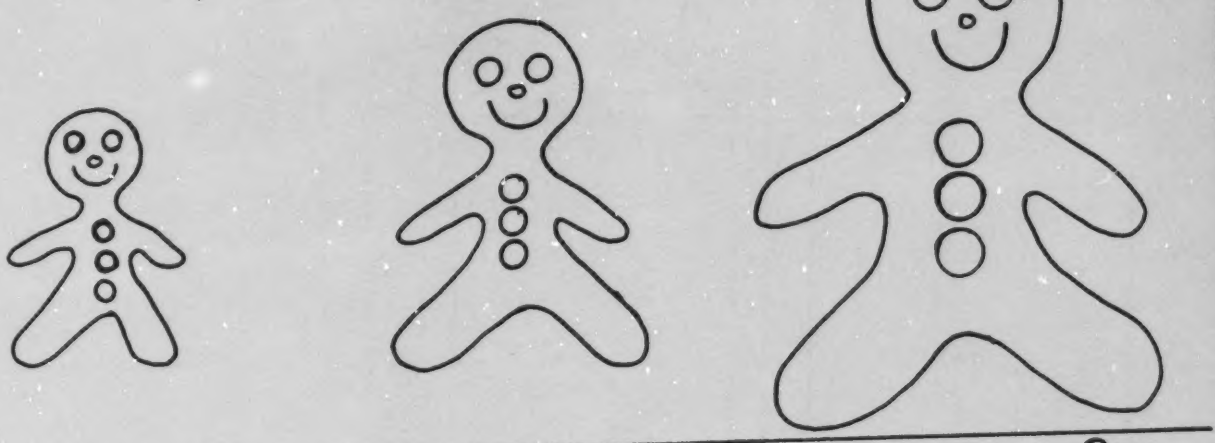
NAME:_____ CLASS:_____

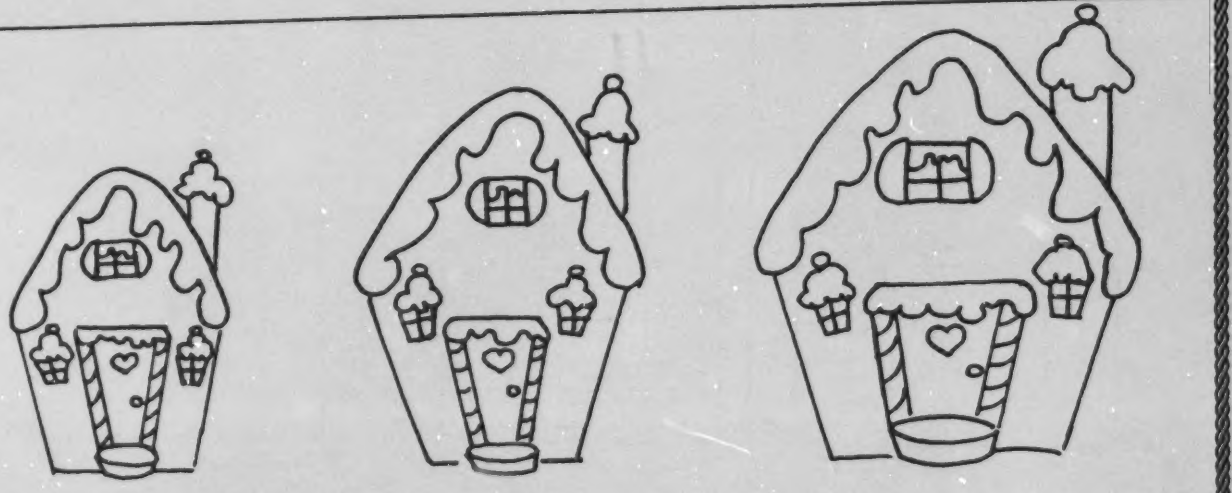
Color the baking pan that is large, but not the larger or largest.

Color the larger gingerbread cookie, but not the largest.

Color the largest gingerbread house.







P.O. 0.10.07.01

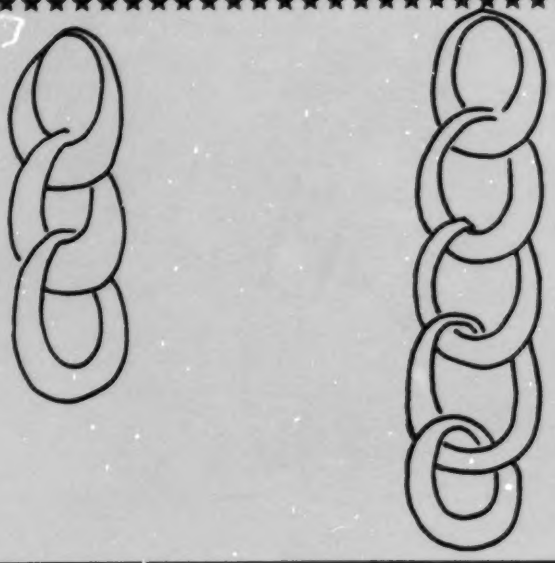
NAME: _____ CLASS: _____

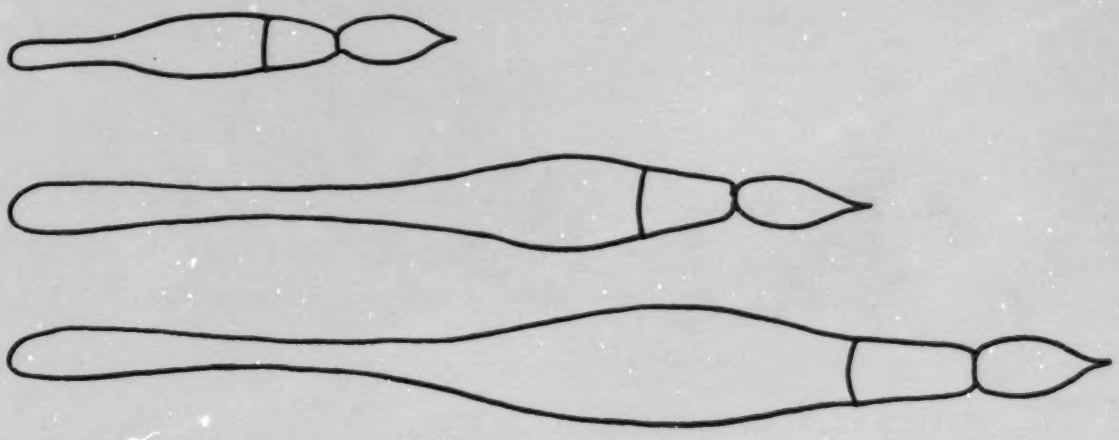
Draw a hat on the smaller clown. Draw a flag on the smallest tent. The shaded ball is a small ball, but not the smaller or smallest. Color the small ball.

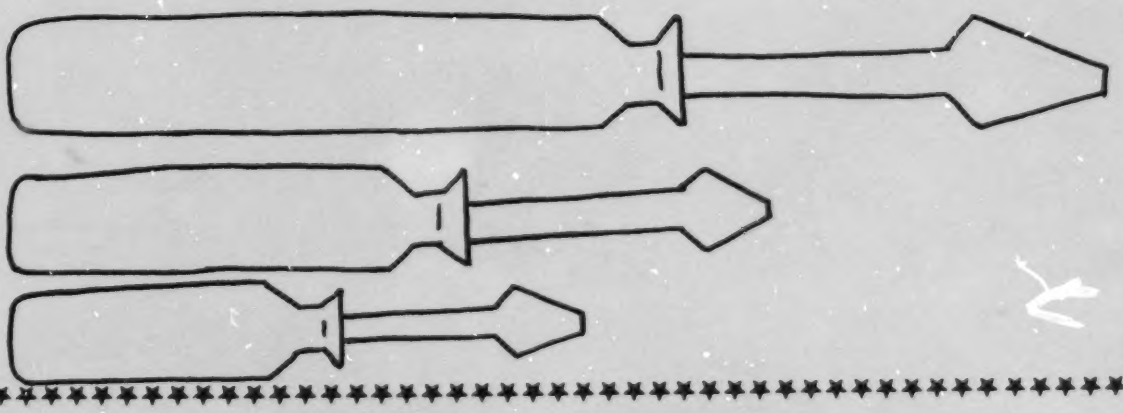
P.O. 0.10.07.02

NAME: _____ CLASS: _____

Color the longer chain.
Color the longest paint brush.
Color the longest screw driver.







P.O. 0.10.07.02

NAME: _____ CLASS: _____

A. Color the pictures in order from short to shortest.

B. Color the pictures in order from long to longest.

P.O. 0.10.03.01

NAME: _____ CLASS: _____

Match the price tags to the coins.

4 ¢	
2 ¢	
1 ¢	
3 ¢	
4 ¢	

P.O. 0.10.08.01

NAME: _____ CLASS: _____

Circle the correct amount of pennies.

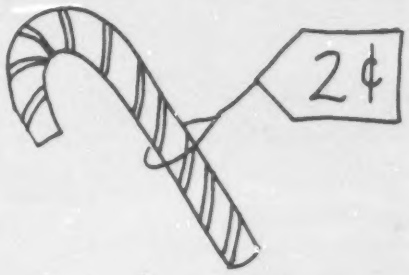
4	
2	
1	
3	
2	
4	

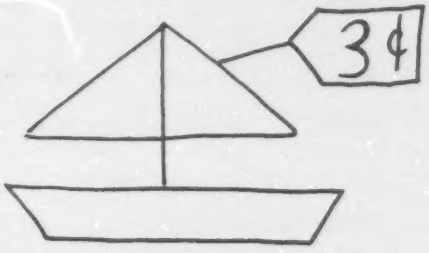
0.10.08.02

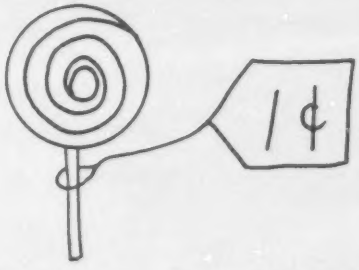
P.O. _____

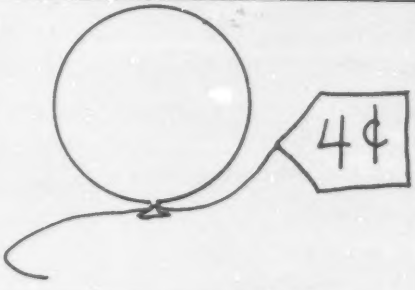
NAME: _____ CLASS: _____

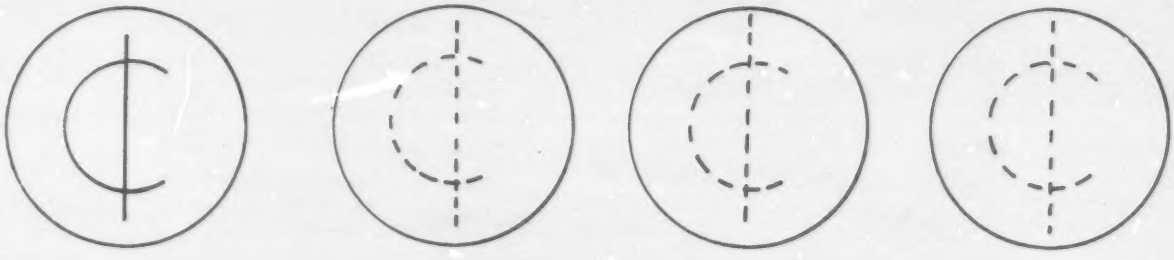
Match the price tags to the coins.
Trace the ¢.











P.O. 0.10.08.02

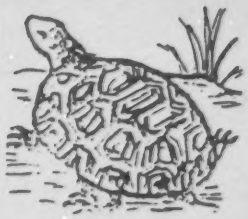
NAME: _____ CLASS: _____

Count. Write the amounts.

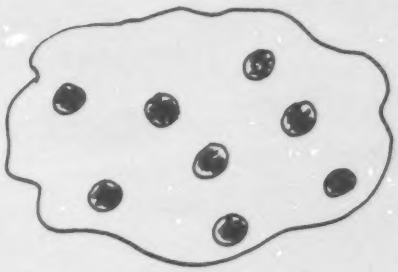
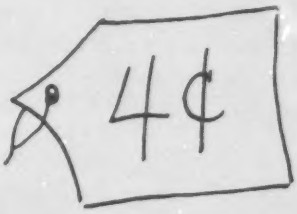
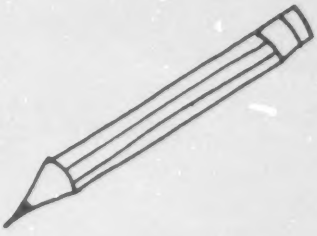
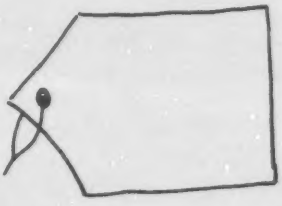
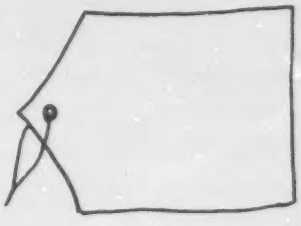
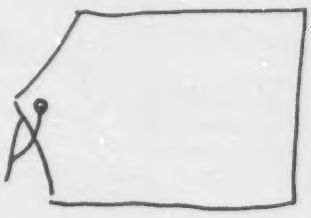
4¢

P.O. 0.10.08.03

NAME: _____ CLASS: _____



Count the pennies. Write the amount on the price tag.

P.O. 0.10.08.03

NAME: _____ CLASS: _____

Listen to the story.
Then, circle the pennies.

1. Tom bought an eraser for 4 cents. He paid for it with four pennies.

2. Jenny bought a pencil. The pencil cost 3 cents. She paid for it with 3 pennies.

3. Sam bought a crayon. The crayon cost 2 cents. He paid for it with 2 pennies.

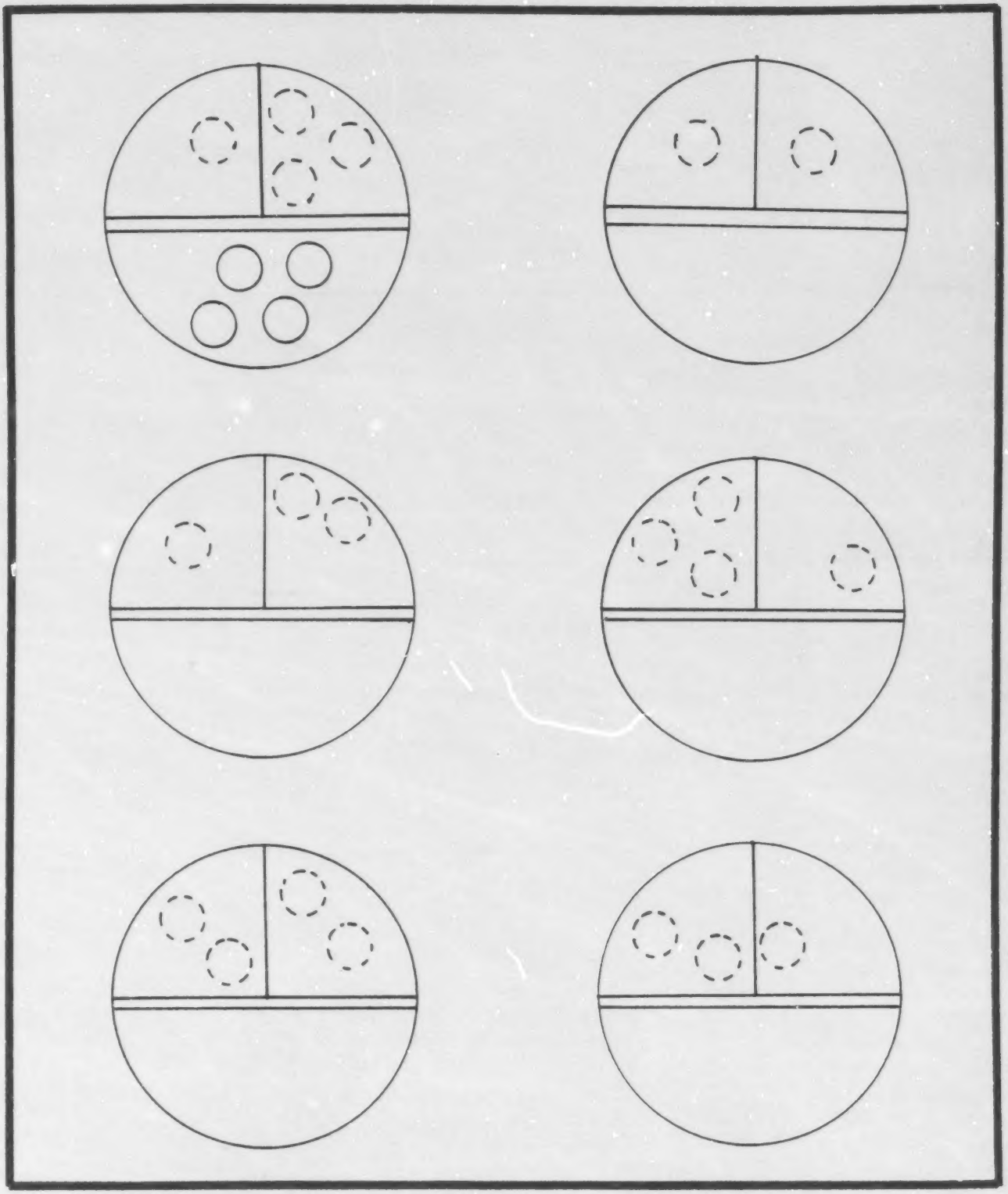
4. Gloria bought a stamp. The stamp cost 1 cent. She paid for it with 1 penny.

0.02.01.01

P.O. _____

NAME: _____ CLASS: _____

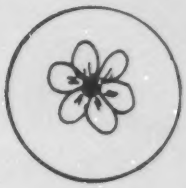
Trace the dots in the first part of the circle. How many in that group?
Trace the dots in the second part of the circle. How many?
Draw a group of dots to show how many there are altogether.



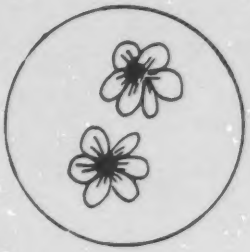
P.O. 0.02.01.02

NAME: _____ CLASS: _____

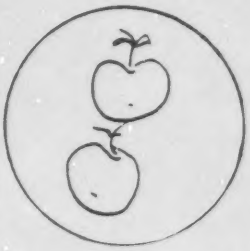
Draw pictures to join the groups.
X the group with the most objects.



and



are



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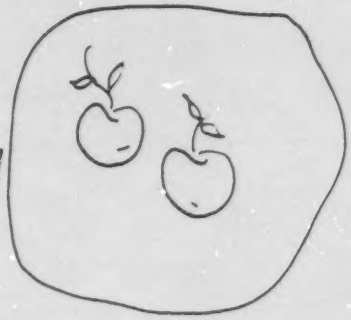
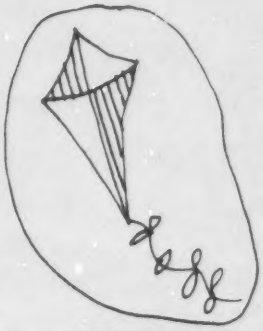


are



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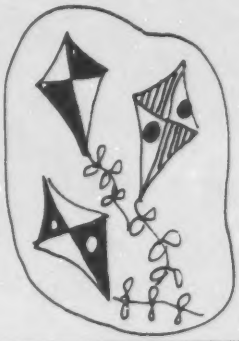
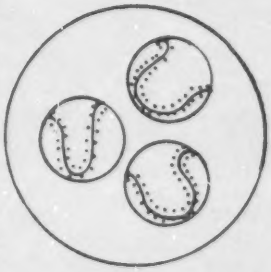


are



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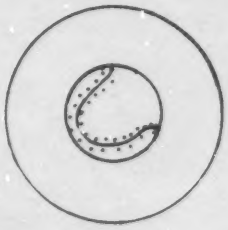


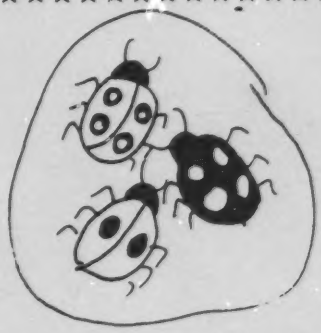
are

P.O. 0.02.01.02 .

NAME: _____ CLASS: _____

Read each line.
Color the group with the most objects.

and

are


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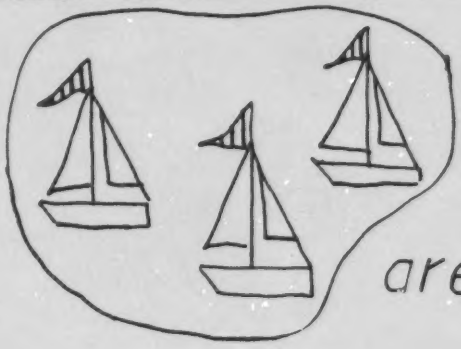
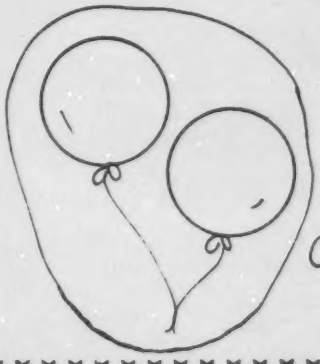
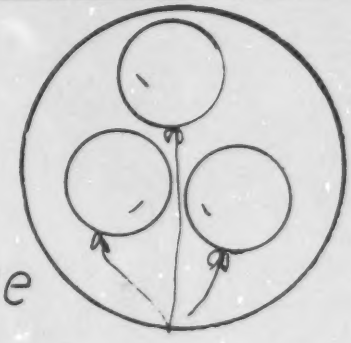

are

and

are


and

are


P.O. 0.02.02.01

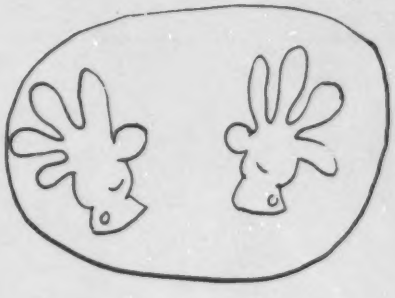
NAME:_____ CLASS:_____

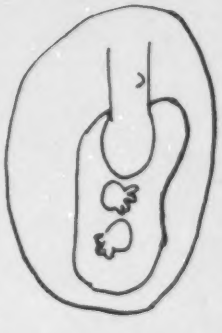
Tell an addition story.
Color the pictures.

and

are

and

are
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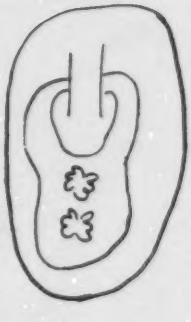
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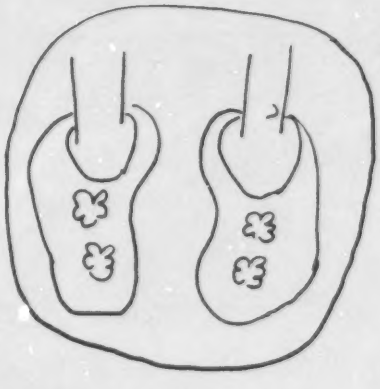


P.O. 0.02.02.01

NAME: _____ CLASS: _____

How many students are there in all?
Tell a number story.

P.O. 0.02.02.02 & .03

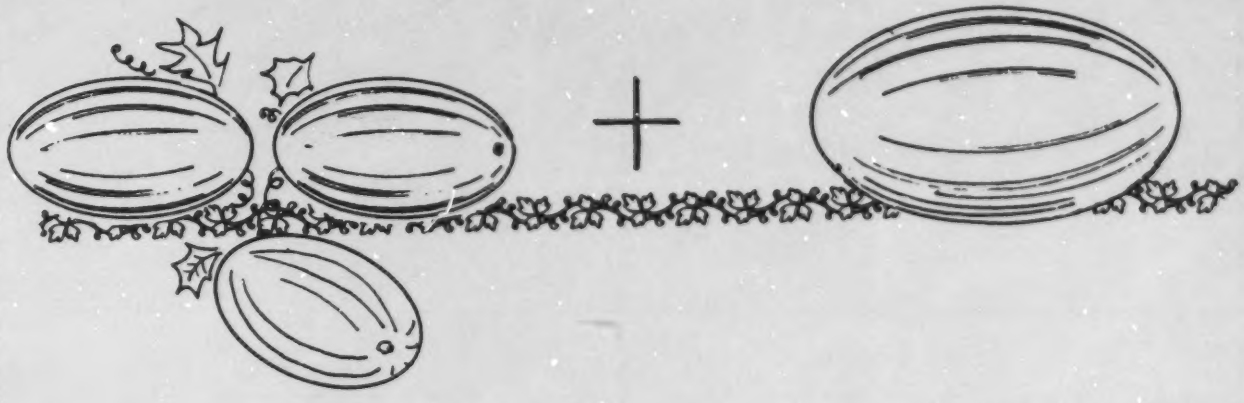
NAME: _____ CLASS: _____

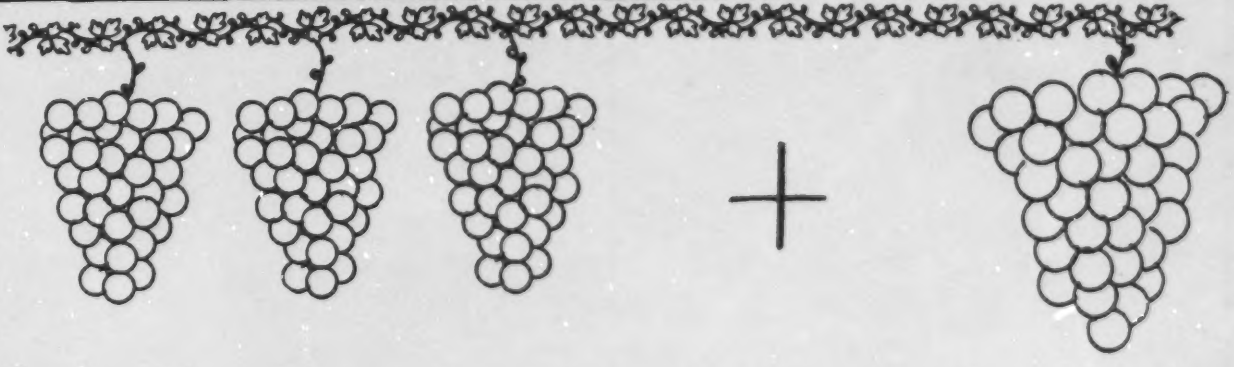
Join the groups. Circle and color.

P.O. 0.02.02.03

NAME: _____ CLASS: _____

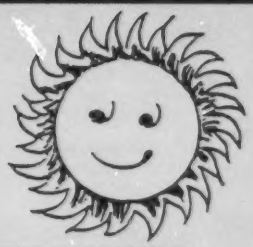
Tell a number story.





P.O. 0.01 10.01

NAME: _____ CLASS: _____

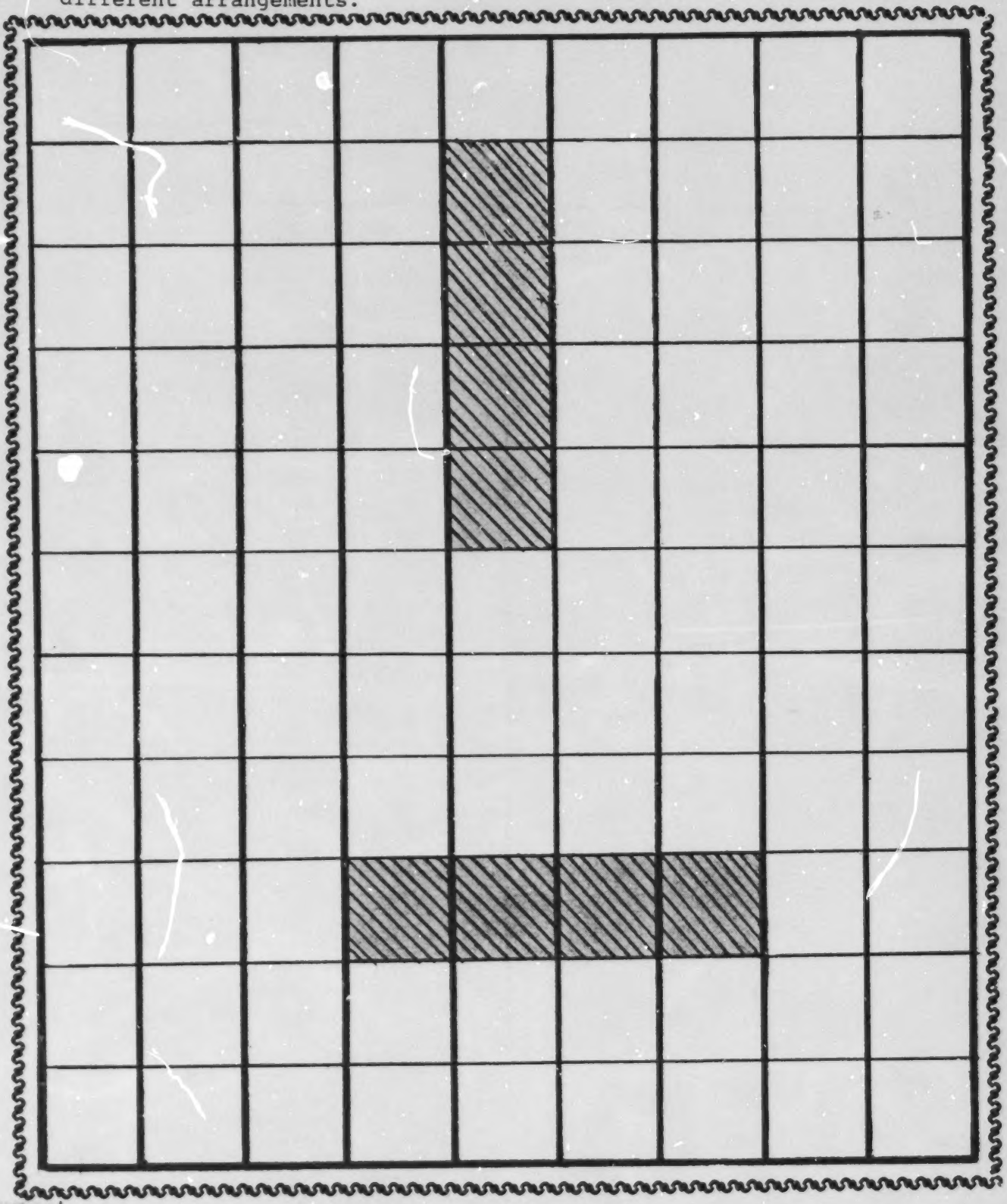


Draw a group of four beads on each string.

P.O. 0.01.10.02

NAME: _____ CLASS: _____

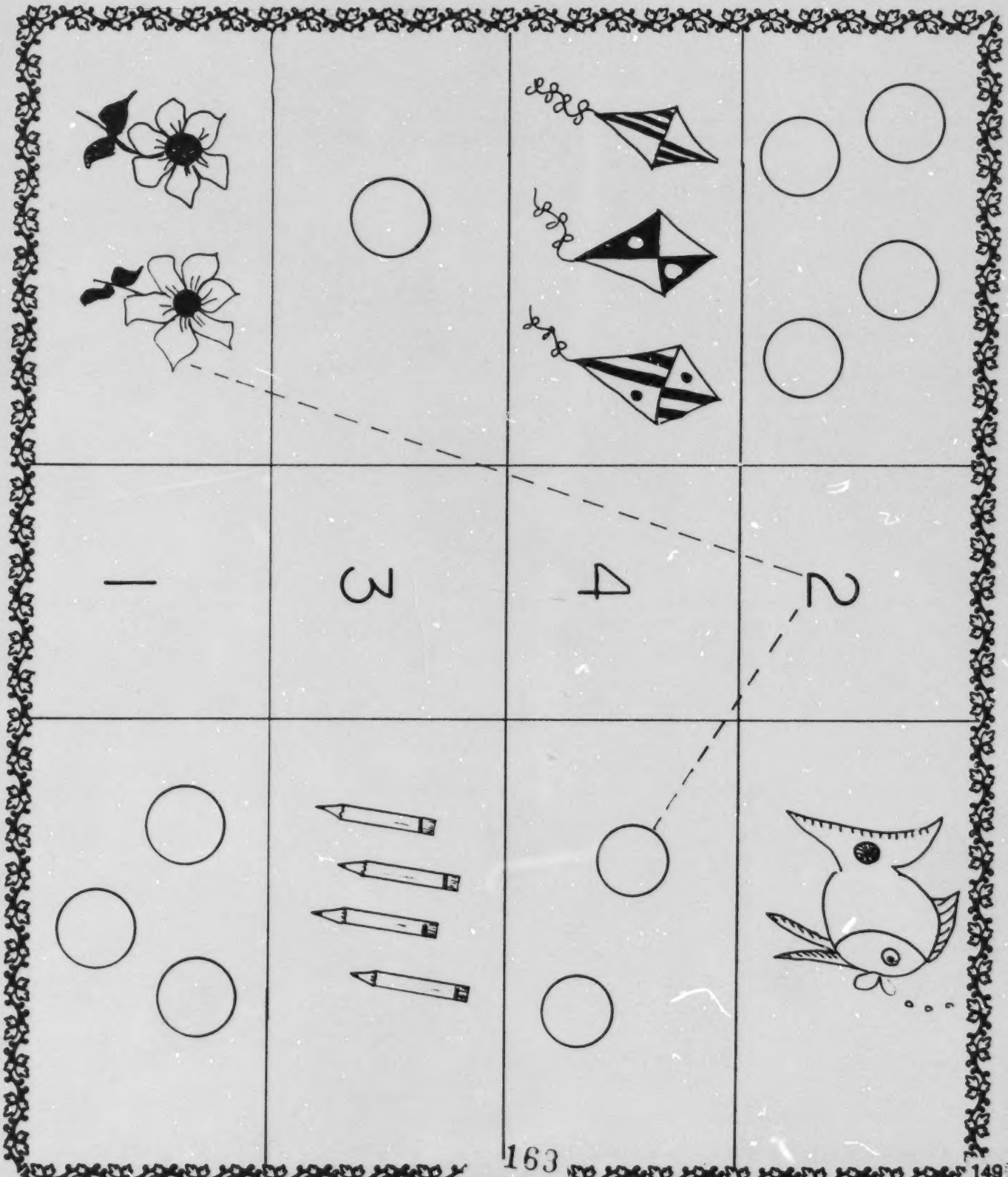
Place four interlocking cubes on each pattern. Make and color other patterns using the same number of cubes in different arrangements.



P.O. 0.01.10.02

NAME: _____ CLASS: _____

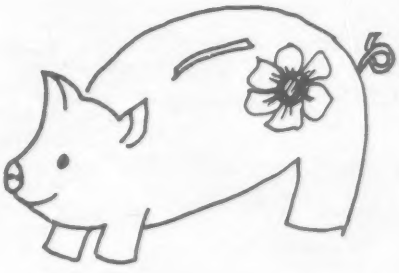
Match each numeral to the boxes which show that number of objects.



P.O. 0.01.10.03

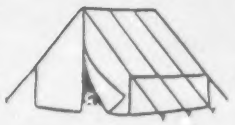
NAME: _____ CLASS: _____

Match the boxes with the same number of coins.

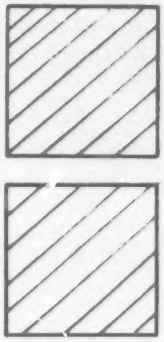


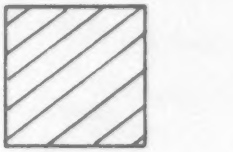
P.O. 0.01.10.03

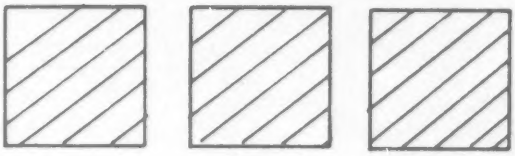
NAME: _____ CLASS: _____

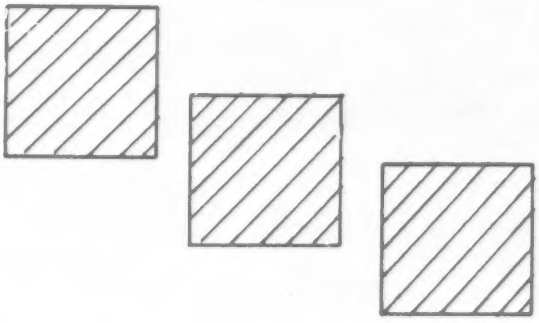


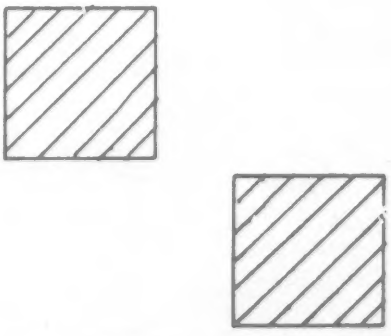
Make different arrangements using the same number of cubes.







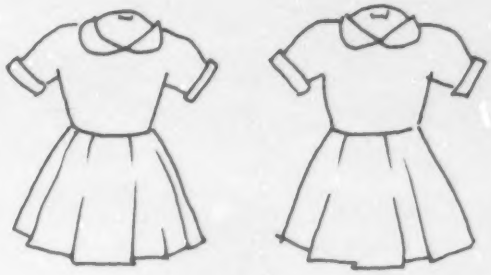




P.O. ~~0 12 01 03~~

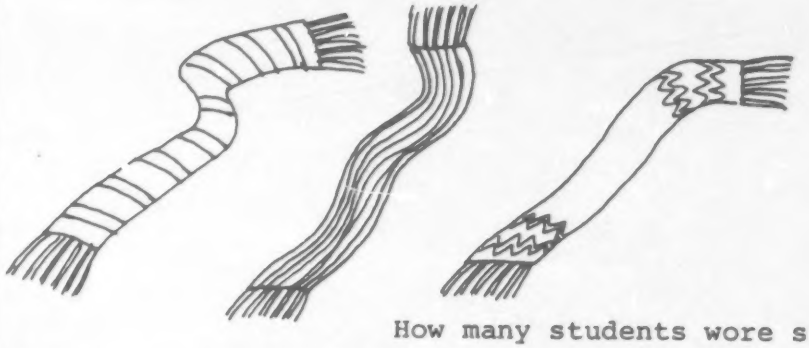
NAME: _____ CLASS: _____

Read the problems to the students.
Each picture represents one object.



How many girls have dresses?

How many boys have ties?



How many students wore scarves?

How many students wore caps?

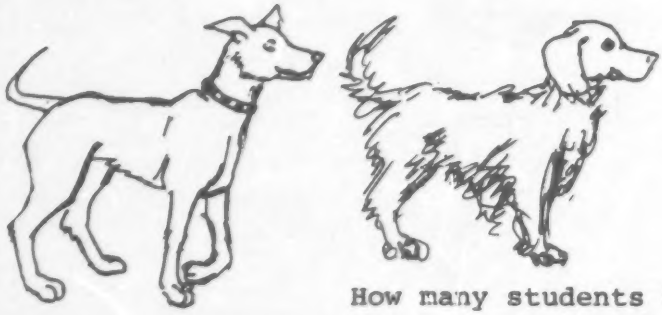
P.O. 0.12.01.03

NAME: _____ CLASS: _____

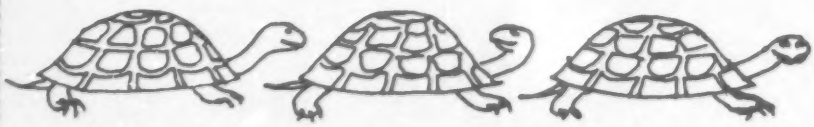
Read the problems to the students.

How many students own cats?

How many students have white hats?



How many students own dogs?

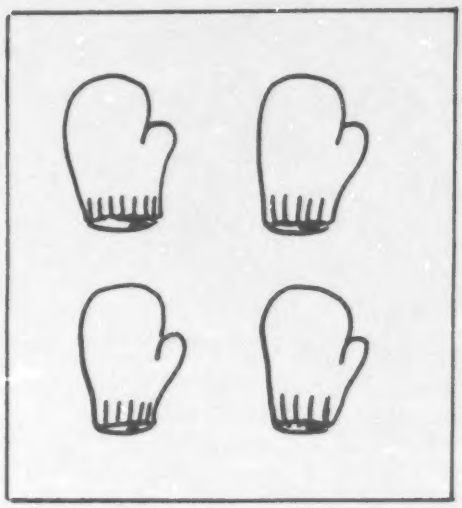


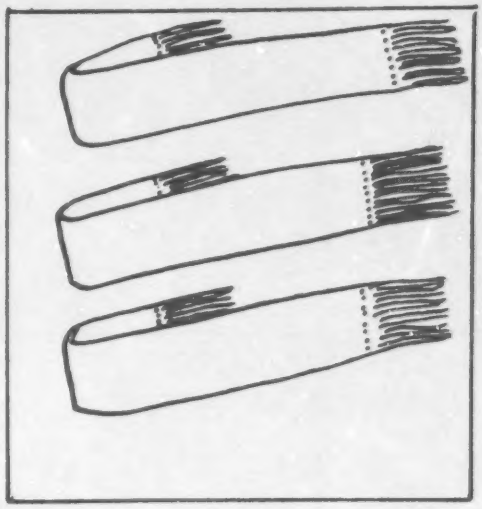
How many students own turtles?

P.O. 0.12.01.04

NAME: _____ CLASS: _____

Match the picture to the numeral.





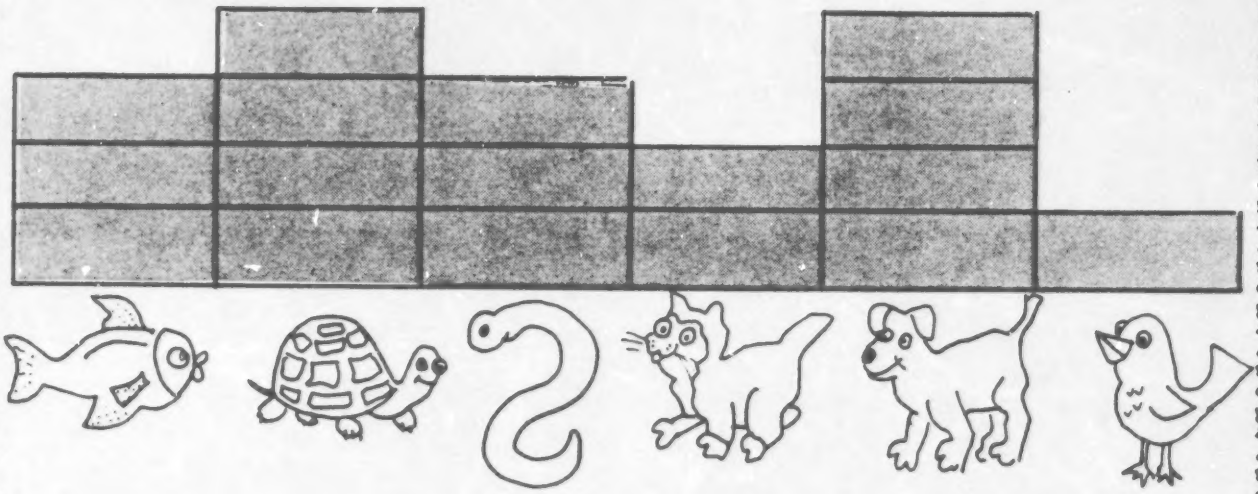
1 2 3 4

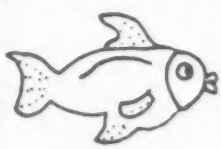
P.O. 0.12.01.05

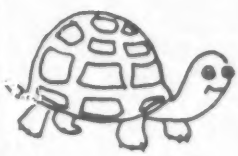
NAME: _____ CLASS: _____

Count the number of animals. Write the numeral in each box.

PETS



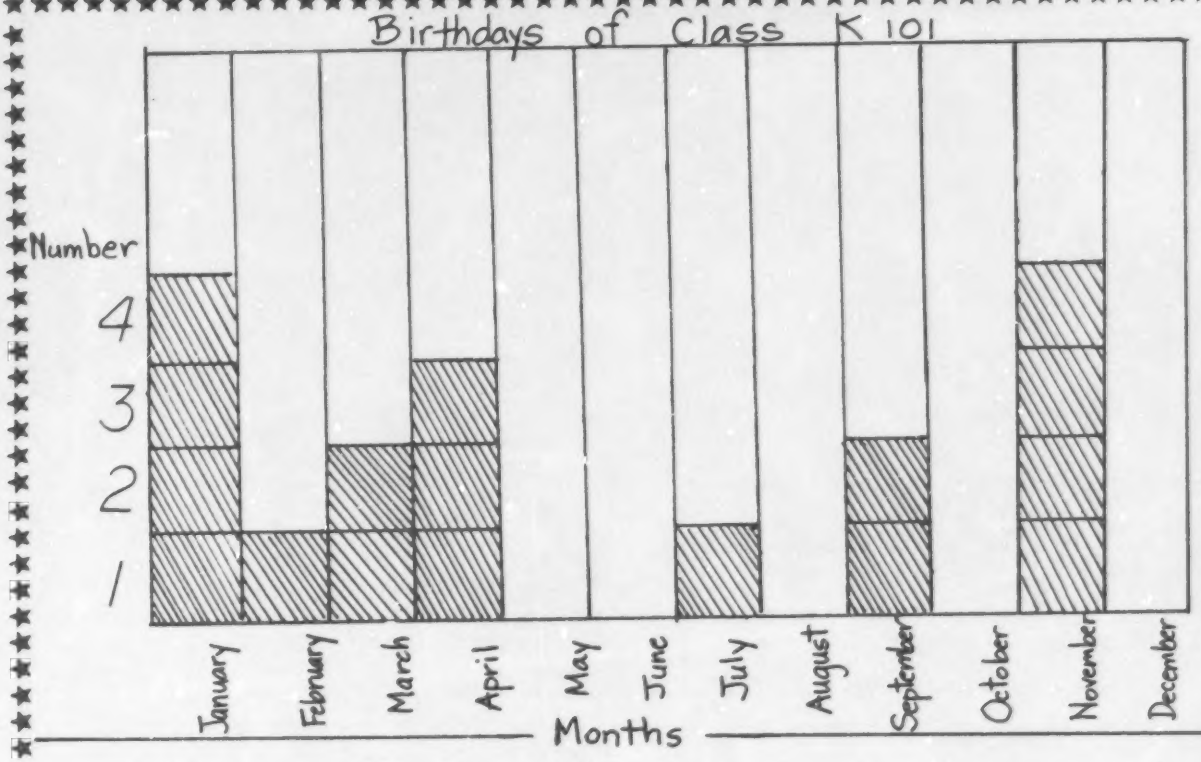




P.O. 0.12.01.05 & .07

NAME: _____ CLASS: _____

How many birthdays?



January birthdays _____.

March birthdays _____.

May birthdays _____.

July birthdays _____.

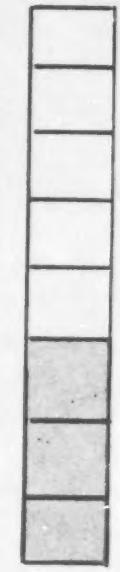
September birthdays _____.

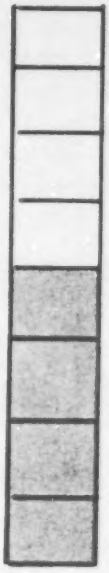
November birthdays _____.

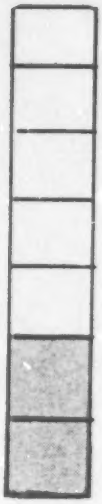
P.O. 0.12.01.05 & .07

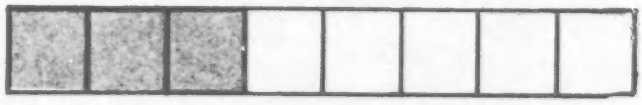
NAME: _____ CLASS: _____

Count the number of shaded boxes.
Write the numeral on the line.





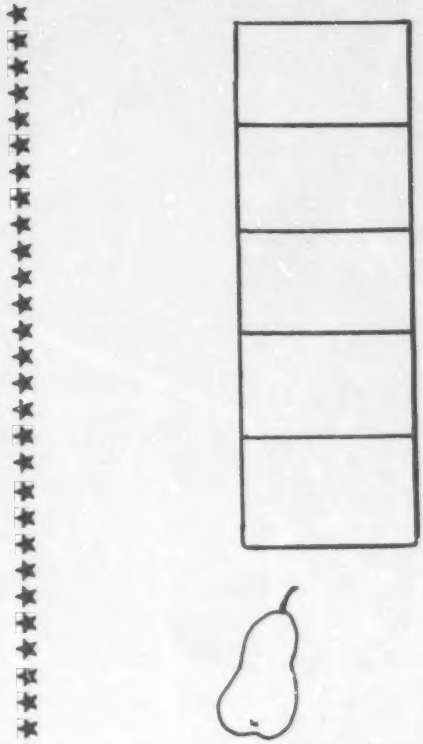


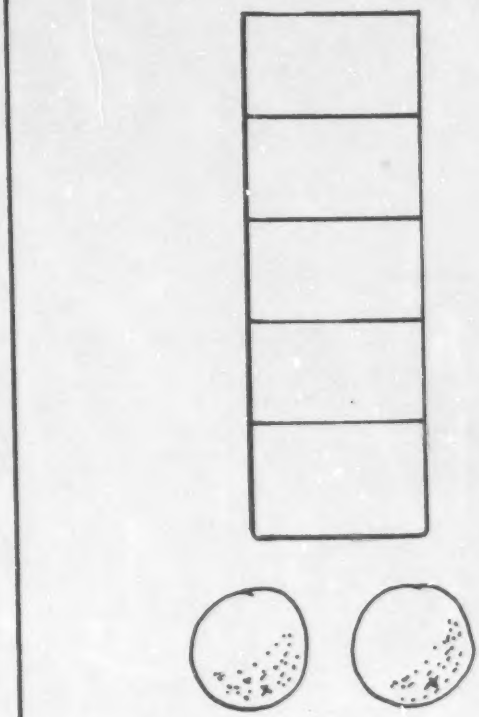


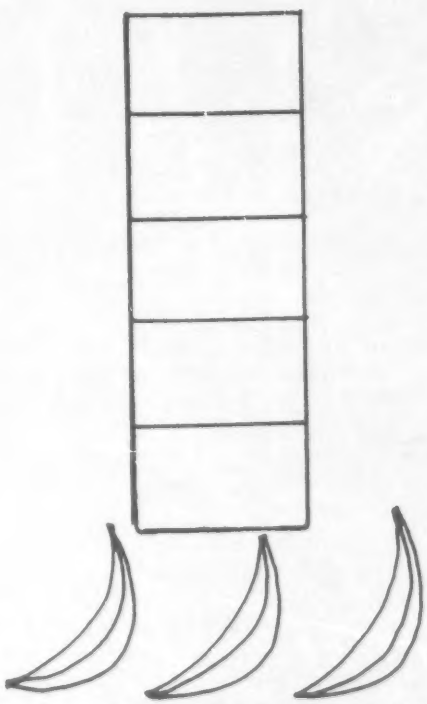
P.O. 0.12.01.06

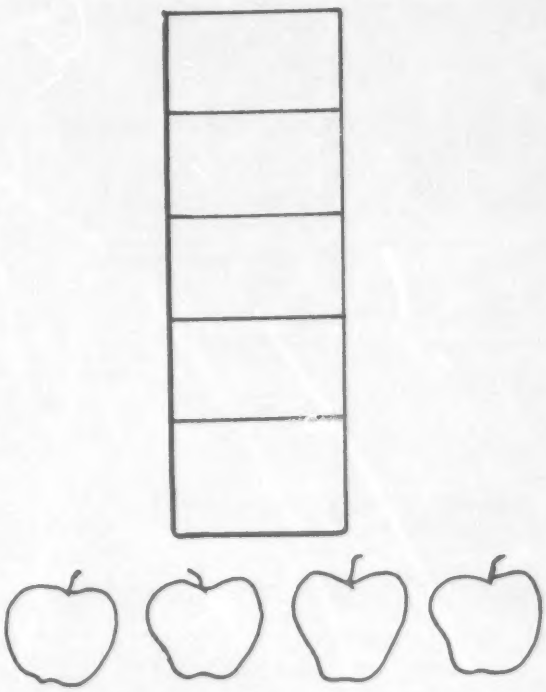
NAME: _____ CLASS: _____

Color one square for each fruit.



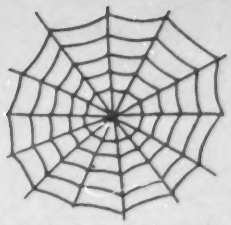
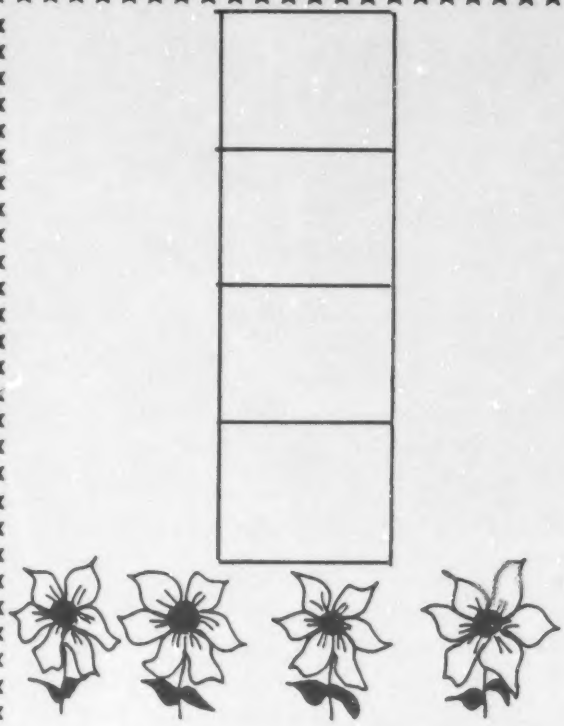
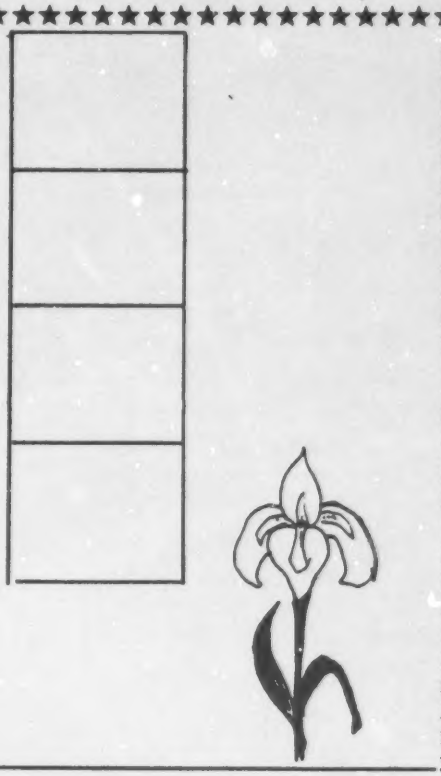
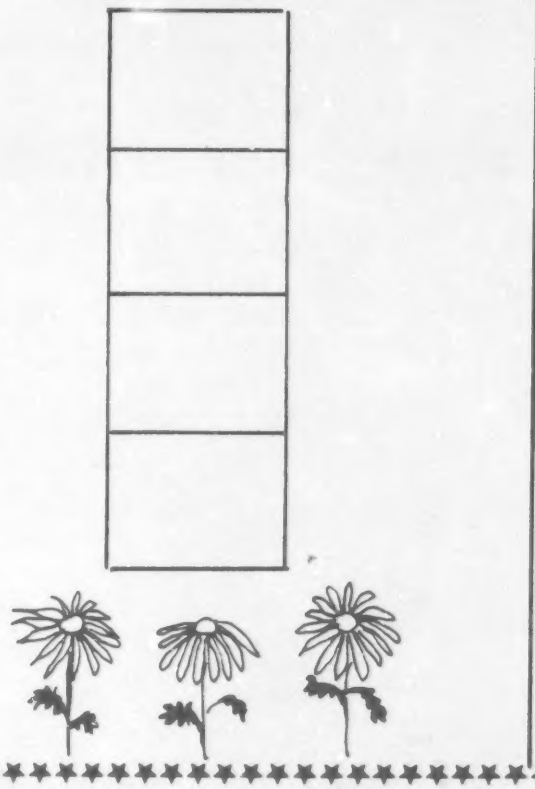
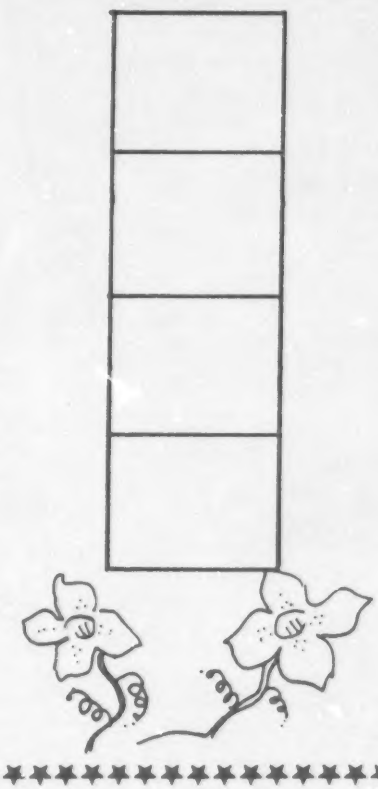






P.O. 0.12.01.06

NAME: _____ CLASS: _____



Color one box for each flower.